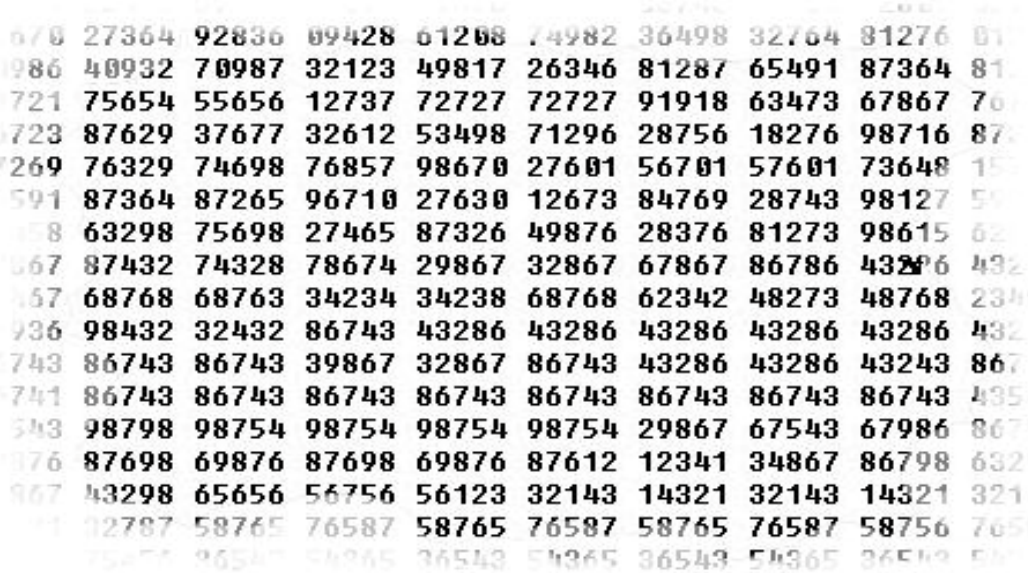


# Numbers & Oddities

# a.k.a. The Spooks Newsletter

## Edition #233, February 2017

**Editor: Ary Boender email: udxf@udxf.nl**

**Numbers & Oddities http://www.numbersoddities.nl**

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

**NEW DESIGNATORS:**
We have changed a couple of designators and adopted the Priyom designators for these modes.
POL-FSK becomes F11 (we already used that one)
M42c becomes F01
M42d becomes F06
The old designators in the logs database were replaced by the new ones.
A new temporarily designator is UM03 for the X2M transmissions.

**RIVET:**
During the past few months I regularly received questions about the Rivet decoder software that decodes XPA, XPA2, F01, and F06. The program might have some problems on Windows 8.1 and Windows 10. I compiled the info from the Rivet homepage and added some info that might help you solving the problems. It worked for me and several other people. The file can be found in the files section on the UDXF and N&O websites.

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## *VOICE STATIONS*

### *E06*

**4836 kHz, 02-02/16-02, 2030 UTC**
321 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000
Windows XP shutdown sound

**4760 kHz, 03-02/17-02, 2130 UTC**
472 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000
Windows XP shutdown sound

**12211/7931 kHz, 04-02, 1430/1530 UTC**
158 643 20
24819 25521 33610 81551 06712 24634 24194 43453 30561 62765
45119 78622 55108 08988 93582 07194 26804 99445 44710 51845

**10308 kHz, 04-02, 0931 UTC, i.p.**
305 246 18
69297 60664 21232 19891 03184 48936 45751 03139 46774 24268
12336 00809 34560 38776 54869 23907 04445 71414
246 18 00000

**14667 kHz, 04-02,  1014 UTC, i.p.**
351 842 55
26443 44827 68939 16508 44564 36928 89166 77467 54630 44372
65748 26244 73065 35385 45368 98962 69047 73602 09942 98930
02731 52945 69775 56172 91701 73618 62292 14806 16582 13904
29758 15433 01739 77445 74450 64734 32024 20710 14712 09468
91490 90307 57039 35020 24867 90552 09851 28788 01149 03615
05597 20527 29081 10460
842 55  00000

Note: The 42nd group 90307 transmitted two pairs.

**20085 kHz, 16-02/17-02, 0700 UTC**
702 956 134
73475 16022 64100 37450 10296 01090 83245 43015 51838 56746
04288 77116 42578 30033 60734 69876 61266 09128 40631 72225
91136 68145 79263 59191 75368 38192 83220 93978 56241 36894
46755 53482 21418 93555 46349 44900 05794 52160 24455 68158
22351 19386 98321 03817 20450 49828 54865 31157 95005 85616
17507 06127 94977 92616 95923 53844 04614 60401 54643 55328
95883 58171 61432 33166 75545 63831 01394 65786 75274 08392
67739 85040 58299 02893 65148 36763 40976 40028 86667 09014
52745 87677 50082 57685 82901 16507 04695 84152 87617 28847
44458 44671 55665 81024 88383 96193 56255 16340 14182 08303
17454 50877 56058 95945 08596 79333 02606 52652 25142 93053
55738 88934 99416 27458 36586 05549 85657 81063 49316 56303
92826 73253 38785 80108 63602 33029 02988 06957 23010 35882
46225 67505 45115 31019
956 134 00000

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## *E07*

**10112/11112/12112 kHz, 04-02/05-02/11-02/12-02, 0700/0720/0740 UTC**
111 111 111 1 207 26 207 26
63148 54578 44820 64016 10339 86176 45019 83309 26293 71529
31188 73158 44276 57760 96307 41663 60004 41797 19711 99646
90896 56315 09522 61613 71109 31713
000 000

**8157/6857/5257 kHz, 06-02/08-02, 2000/2020/2040 UTC**
182 182 182 1 482 85 482 85
69679 85897 83840 57742 65201 68932 46724 34299 29569 82097
72007 84206 16931 65126 86805 56574 61775 75464 66040 50899
49269 07550 57488 65095 55375 48937 61018 12705 72038 11581
41999 55024 49544 73667 88646 08887 87777 55078 28405 55759
52266 51514 21474 54554 30318 54120 74462 04222 64094 66552
73003 58455 25721 89294 78801 40440 82368 27940 75546 48785
95480 03266 22361 14653 00348 03230 04105 09229 93487 38480
88915 21265 00763 51473 39476 98233 56129 18373 11250 38135
37581 93420 72986 15015 08138
000 000

**8157/6857/5257 kHz, 13-02/15-02, 2000/2020/2040 UTC**
182 182 182 1 735 87 735 87
69120 89097 99941 82936 79586 56338 48014 78360 02779
73105 56179 11355 06100 04811 89314 08800 71688 38659
58911 27577 29793 18024 29849 23707 70449 65195 79857
52672 94642 45532 09302 09127 27021 88394 75132 40352
77172 37053 05073 03107 75349 47060 03187 14631 26965
43273 93558 31495 02834 32819 06602 06704 47020 82469
32818 76426 16095 70273 20237 81100 39671 43214 10873
34780 31570 45137 06381 88971 45526 60777 08026 95360
36064 73456 83200 26150 46962 78740 74629 35151 61261
25751 72948 69532 51442 71647 15616
000 000

Note: Error in the 2040 UTC transmission.
182 182 182 1 735 87 735 stops and restarts with 182 182 182 1 735 87 735 87
69120 89097 99941 82936 79586 56338 48014 78360 etc.

**16161/14661/13361 kHz, 14-02, 1100/1120/1140 UTC**
163 163 163 1 400 137 400 137
93273 69733 18972 45231 23398 84258 77481 69815 35932 14358
44640 06330 91732 77496 54770 87782 02945 88893 03419 10272
04968 69636 19165 57291 99901 68200 71622 02349 88761 70043
53675 07820 57613 38026 42584 15391 25497 04479 59585 98764
67114 27996 28131 37497 13407 48468 61658 80328 57013 81119
30691 69320 51401 90152 10031 85580 58522 71577 03542 39885
44437 45746 68216 43450 50485 93269 09058 80860 92172 06896
29426 68443 55238 89898 14392 13163 61038 39762 03117 10998
51576 01837 22524 93864 50199 50876 18886 27455 75846 29423
77812 56604 03637 85472 52484 98760 17341 72088 53356 39358
08070 99109 25834 11368 67871 45517 34083 78986 34495 09164
63350 43133 06817 04718 16540 44808 71495 29362 11558 36191
83709 09890 88830 16386 20867 80200 31868 07066 32590 26721
13777 56835 53301 70015 68404 21754 68557
000 000

**16161/14661/13361 kHz, 21-02/24-02, 1100/1120/1140 UTC**
163 163 163 1 7786 123 7786 123
88620 46439 94541 52336 02013 74199 45834 13598 40128 93235
05327 58283 86387 13243 11494 76377 25827 74973 09729 57027
80977 10112 17880 14209 07095 02676 07693 33395 40893 01319
80278 00251 89625 84054 91133 30215 86128 87592 26379 98989
21711 97203 23844 88687 43272 14437 93646 04516 44662 06044
60738 02516 24195 53211 59032 16593 70833 98669 94098 03749
57218 68879 55656 55091 32146 62003 89556 49506 13643 92214
81463 60019 69912 73400 64962 12777 73011 55394 46096 57137
22651 13679 48045 40248 32236 52293 38414 46708 65332 42030
37312 64423 86786 68876 08282 90857 33069 97720 74193 09512
11463 46550 16846 91785 67606 29120 91414 44758 55780 56976
82147 53457 00273 63107 68934 53853 20491 60372 64455 57208
37695 51396 16780
000 000

**8157/6857/5257 kHz, 27-02, 2000/2020/2040 UTC**
182 182 182 1 428 14 418 14
90048 40005 36295 02253 91468 85697 65098 89724 68557 50304
67909 68147 06572 34433
000 000

**6864 kHz, 28-02, 0700 UTC, unscheduled transmission**
321 321 321 1 101 22 101 22
51966 91365 84040 73069 45055 01771 79243 56940 00604 12545
90875 90903 82700 07949 59694 81799 91436 54246 60142 65299
15211 19232
000 000

**16161/14661/13361 kHz, 28-02, 1100/1120/1140 UTC**
163 163 163 1 9845 116 9845 116
00796 21114 60274 80575 73772 08657 72264 10120 33417 99966
59486 10363 20905 46467 71122 86549 28567 75991 51702 21953
70826 59150 82599 92691 30634 92618 43728 72662 44758 46965
43088 85307 75161 16848 53819 48189 49628 06888 67168 11811
94811 45025 90584 77182 97229 50566 90575 78990 88310 90139
20914 02937 72556 83357 12447 45552 94618 25860 33085 84813
48962 77743 78627 91099 65909 34992 98909 85963 03335 93147
73888 80089 80739 85369 30679 14298 55849 51352 54350 75848
47879 19424 35521 47705 44926 45286 88033 24853 37413 52505
25159 50538 39752 96593 09154 46295 56128 64310 84764 38540
45588 34992 96206 89175 90466 03942 77208 68232 19196 70120
69646 92243 87276 59616 74989 75946
000 000

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## *E07a*

**5877/5277/4577 kHz, 22-02, 2100/2120/2140 UTC**
825 825 825 1 61815 3643 79 3643 79
44343 61352 53860 48317 06109 09165 22009 94253 64914 58697
62721 31616 25443 51603 47416 47074 93525 25234 74668 36440
68992 77828 01014 99937 37606 64957 26472 19184 59941 96451
60550 18896 91753 72956 03500 10695 50645 68123 51169 01848
04398 48159 46465 46224 17146 48349 02678 03096 06547 22476
43576 52921 25066 70596 25768 46690 28428 37026 84601 27446
44322 72507 99957 13991 13059 70255 83004 67394 17766 83264
18730 69490 15606 39892 58847 55625 14949 65157 79503
000 000

**5111/5822/6911 kHz, 23-02, 0530/0550/0610 UTC**
189 189 189 1 61815 3643 79 3643 79
44343 61352 53860 48317 06109 09165 22009 94253 64914 58697
62721 31616 25443 51603 47416 47074 93525 25234 74668 36440
68992 77828 01014 99937 37606 64957 26472 19184 59941 96451
60550 18896 91753 72956 03500 10695 50645 68123 51169 01848
04398 48159 46465 46224 17146 48349 02678 03096 06547 22476
43576 52921 25066 70596 25768 46690 28428 37026 84601 27446
44322 72507 99957 13991 13059 70255 83004 67394 17766 83264
18730 69490 15606 39892 58847 55625 14949 65157 79503
000 000

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## *E11a*

**9950 kHz, 01-02/02-02, 0930 UTC**
270/30 Attention
71914 68896 87303 52377 61038 35087 12559 57408 93080 51783
43706 50685 64748 23100 53699 46299 48534 36649 96028 84350
89671 34339 19237 26807 98360 91333 84234 48778 83563 82685
Attention, rpt msg, out

**17535 kHz, 01-02, 0545 UTC**
347/37 Attention
14521 66706 06230 77228 74286 60394 20528 93047 82893 57324
23570 65583 29125 32627 09213 30670 65385 53350 73437 86655
84206 99539 76733 14947 83747 49057 50448 68201 93421 10353
80533 36323 83800 04832 69940 76042 55341
Attention, rpt msg, out

**8680 kHz, 02-02/04-02, 1300 UTC**
587/31 Attention
31373 73777 07994 86475 86854 94073 46397 08352 52418 48189
36166 68529 65544 32062 04792 62251 74135 02934 44245 06620
76827 52768 09995 92738 07602 90211 16242 82530 42190 83692
09125
Attention, rpt msg, out

**16335 kHz, 03-02, 1650 UTC**
922/39 Attention
25797 06921 38528 46096 11334 87235 05702 42195 62809 96635
38872 63825 35889 93192 84269 30668 42125 82053 91461 33905
46422 38602 45962 35339 45984 64311 85320 66779 06045 01120
35517 03966 20348 06323 35235 02942 49905 02208 54120
Attention, rpt msg, out

**6849 kHz, 06-02/09-02, 0530 UTC**
646/33 Attention
06908 36523 77303 72005 74507 26367 58611 92233 89544 09316
54796 71429 51134 88992 09941 53961 97172 70893 21420 35955
34587 95283 60259 26373 98395 91550 73378 87436 95846 87250
37408 63540 15373
Attention, rpt msg, out

**9130 kHz, 07-02/ 10-02, 0710 UTC**
639/37 Attention
33830 95858 42066 37830 86216 92592 32033 92698 87121 91467
89803 49509 87452 45842 65246 57398 07964 72021 42267 96682
64514 28735 56605 81295 35602 07345 56282 61806 50519 16536
33512 95957 78795 57109 26907 22213 43122
Attention, rpt msg, out

**9443 kHz, 08-02/11-02, 1705 UTC**
393/33 Attention
80006 84972 82931 34065 27457 76572 76313 83764 29392 94160
63378 07327 58569 94271 85678 90348 85263 87011 01083 21184
88156 09630 88081 87154 84643 64025 23746 42827 29477 03760
87172 09755 11864
Attention, rpt msg, out

**5082 kHz, 09-02, 1730 UTC**
416/36 Attention
12675 29549 56738 23073 86084 47894 33598 04721 24366 33039
83079 98831 86864 08716 76031 21549 61061 38111 48541 97970
85837 29790 90980 02022 00217 66731 49564 63210 46773 81846
77211 43929 28322 00185 45388 30785 00153
Attention, rpt msg, out

**16112 kHz, 10-02/12-02, 0730 UTC**
359/38 Attention
83083 96296 10096 48749 31003 39307 81560 70507 05029 44841
82269 77098 44073 52552 34209 48671 40344 64923 26810 38872
78412 88528 70255 23527 16529 70052 52953 07313 42003 78657
23219 33316 41956 27432 96114 75768 22967 35651
Attention, rpt msg, out

**10213 kHz, 13-02, 0745 UTC**
264/37 Attention
40536 65124 67351 06625 14823 01305 87043 35583 46827 92768
95319 29751 13718 80386 09432 55014 88695 59555 26502 40872
03103 81508 79999 45091 77036 29005 61719 71982 58242 81958
58998 45322 22175 57327 66190 38672 32608
Attention, rpt msg, out

**11100 kHz, 13-02, 0820 UTC**
438/32 Attention
88441 91012 04902 83173 56876 29768 34024 83498 71793 36794
80483 88574 63229 28825 93951 33265 65493 54324 71213 66349
20096 59843 02788 46758 71057 12479 04525 59975 18459 38914
58473 01387
Attention, rpt msg, out

**9446 kHz, 13-02/15-02, 0900 UTC**
530/37 Attention
84988 71932 89108 40174 38040 92268 62613 52288 88120 17540
08533 72958 06111 50134 97265 40927 55122 79552 37730 78248
77264 03440 65089 22187 09226 89520 60012 55788 25397 50404
03421 20867 35658 95977 54932 35563 02174
Attention, rpt msg, out

**12924 kHz, 13-02, 1745 UTC**
245/35 Attention
01974 54403 58048 28287 20114 17337 26851 78389 31183 12838
25398 74663 93923 54615 94494 99527 11454 97801 38903 89827
45689 52707 64695 45685 33304 95629 45086 92049 37074 25140
32500 75819 95169 35315 06983
Attention, rpt msg, out

**7840 kHz, 14-02/16-02, 0645 UTC**
518/39 Attention
47701 65464 27649 06539 25170 95053 97963 62216 22601 46225
83806 20848 66813 88190 55110 26568 64383 54043 93886 86006
83608 20506 99459 60458 27400 00976 10860 43171 56254 12773
25002 70927 75399 51112 61130 35412 92255 96429 30791
Attention, rpt msg, out

**8800 kHz, 14-02/17-02, 1000 UTC**
307/35 Attention
10672 29610 13380 15884 81074 61987 19951 86229 78154 00753
25087 8653 96472 92247 14792 56284 30331 28481 54785 95454
71979 05893 72290 94399 29951 53837 31039 09883 54793 49123
10263 17086 94661 55161 06248
Attention, rpt msg, out

**12153 kHz, 14-02, 1045 UTC**
577/33 Attention
75548 80615 93206 78306 45470 50839 53222 06321 56639 51591
57958 22482 37061 90557 48277 27220 41176 37635 36743 10961
98722 16923 30042 18623 43621 07124 75596 67299 36774 15107
15430 35399 19373
Attention, rpt msg, out

**14666 kHz, 14-02/18-04, 1345 UTC**
911/34 Attention
75358 57100 04642 90830 75167 33459 17347 21393 82704 15377
06008 30999 98294 54833 25161 30881 56330 24244 46748 58094
03730 03173 54608 85126 16798 07638 25552 94503 61917 06628
04841 05835 60682 13014
Attention, rpt msg, out

**10429 kHz, 15-02/19-02, 0805 UTC**
314/37 Attention
33641 38471 18992 68609 82252 38371 19078 47265 12634 05201
73052 50655 72560 00118 45971 15019 02135 59162 43422 63367
34619 95492 66495 21664 00077 22527 83750 65394 20996 34612
93107 50176 82134 11897 92944 86942 16119
Attention, rpt msg, out

**10448 kHz, 15-02/19-02, 1625 UTC**
970/37 Attention
04857 21246 46644 17616 57869 50117 05225 49767 01650 60044
47297 43551 25353 53575 29044 76854 31982 65608 46730 84442
12601 04389 63346 18418 90169 68446 95774 12667 17133 67139
85424 17415 95050 63232 83078 66955 98346
Attention, rpt msg, out

**8545 kHz, 15-02/18-02, 1730 UTC**
409/37 Attention
23631 51004 39125 02307 88974 80851 11077 98125 41834 81657
44809 58362 58698 51434 40274 65918 15171 89257 93799 60739
80598 96261 69692 34275 16473 45316 61370 54050 68486 19994
87312 40381 30605 68307 43781 43906 00855
Attention, rpt msg, out

**12924 kHz, 16-02/18-02, 0710 UTC**
492/33 Attention
91683 93673 76584 34856 22835 89090 39930 80389 84242 18467
91000 13596 05805 71550 90056 12648 61157 47113 75063 54543
58244 16807 49146 73428 56677 43998 14490 60090 52005 88812
16818 69466 38134
Attention, rpt msg, out

**11100 kHz, 16-02, 0820 UTC**
438/32 Attention
88441 91012 04902 83173 56876 29768 34024 83498 71793 36794
80483 88574 63229 28825 93951 33265 65493 54324 71213 66349
20096 59843 02788 46758 71057 12479 04525 59975 18459 38914
58473 01387
Attention, rpt msg, out

**5409 kHz, 16-02, 1530 UTC**
264/37 Attention
40536 65124 67351 06625 14823 01305 87043 35583 46827 92768
95319 29751 13718 80386 09432 55014 88695 59555 26502 40872
03103 81508 79999 45091 77036 29005 61719 71982 58242 81958
58998 45322 22175 57327 66190 38672 32608
Attention, rpt msg, out

**6304 kHz, 17-02, 2000 UTC**
577/33 Attention
75548 80615 93206 78306 45470 50839 53222 06321 56639 51591
57958 22482 37061 90557 48277 27220 41176 37635 36743 10961
98722 16923 30042 18623 43621 07124 75596 67299 36774 15107
15430 35399 19373
Attention, rpt msg, out

**10448 kHz, 19-02, 1625 UTC**
970/37 Attention
04857 21246 46644 17616 57869 50117 05225 49767 01650 60044
47297 43551 25353 53575 29044 76854 31982 65608 46730 84442
12601 04389 63346 18418 90169 68446 95774 12667 17133 67139
85424 17415 95050 63232 83078 66955 98346
Attention, rpt msg, out

**12924 kHz, 19-02, 1745 UTC**
245/35 Attention
01974 54403 58048 28287 29114 17337 26851 78389 31183 12838
25398 74663 93923 54615 94494 99527 11454 97801 38903 89827
45689 52707 64695 45685 33304 95629 45086 92049 37074 25140
32500 75819 95169 35315 06983
Attention, rpt msg, out

**16112 kHz, 21-02/23-02, 0745 UTC**
331/34 Attention
99198 86380 64080 83973 41426 95304 05341 41607 77528 51362
69911 83084 81740 34512 59781 47010 28042 08012 49332 44521
60371 38254 56785 05855 59460 23901 94981 28949 95281 38971
81993 21004 69477 31031
Attention, rpt msg, out

**7984 kHz, 21-02/22-02, 1205 UTC**
460/35 Attention
16156 08917 24473 22065 45789 17482 44449 00827 74430 51833
82810 05636 23892 98187 21510 97478 72468 49518 67103 00860
20558 63336 87992 50972 89841 52741 31690 34014 89050 03148
30217 28023 52327 14817 78197
Attention, rpt msg, out

**4505 kHz, 21-02/26-02, 1605 UTC**
236/39 Attention
78610 73548 54899 62830 11664 30663 70146 28054 35874 22821
44883 59350 99017 99011 57926 46367 31384 36957 15848 48598
02359 40778 06187 17366 83850 32052 46452 53835 53721 49091
89398 06343 69618 71669 15819 78008 79772 91384 85150
Attention, rpt msg, out

**20167 kHz, 24-02, 1225 UTC**
528/34 Attention
13743 03037 98150 93049 01085 38044 84421 52187 28346 52093
35275 56273 29955 32501 70151 13848 32689 03565 65922 17289
39584 54716 56470 20167 51678 21540 13450 42875 37398 13072
98081 62782 57795 65734
Attention, rpt msg, out

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## *E17z*

**11170/9820 kHz, 02-09/09-02, 0800/0810 UTC**
674 210 5 40048 43617 30343 84217 43043 210 5 00000

**11170/9820 kHz, 16-09/23-02, 0800/0810 UTC**
674 213 5 33362 32079 40063 40372 89762 213 5 00000

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## *E25*

**9600 kHz, E25 tests**

| | |
|---|---|
| 04-02, 1129 UTC | Near Eastern style music ending with test tone |
| 08-02, 1226 UTC | Near Eastern style music i.p. ending with test tone |
| 16-02, 1105 UTC | Near Eastern music i.p. followed by test tone |
| 17-02, 1102 UTC | Near Eastern music i.p. followed by test tone |
| 18-02, 1100 UTC | Near Eastern music i.p. followed by test tone |
| 20-02, 1110 UTC | Near Eastern music. Preceded by continuous test tone from 1057z - Music 1110z - Carrier off 1114z |

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## *EV02 - US military Voice Loop*

17994 kHz, 15-2, 0455 UTC  Operator reading a story about Napoleon. Probably US signals training

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## *G06*

**4519 kHz, 09-02/23-02, 1827 UTC**
271 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

**4792 kHz, 10-02/24-02, 1928 UTC**
436 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

10-02: Windows XP shutdown sound at 1946 UTC

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## *S06*

**15614 kHz, 02-02, 0930 UTC**
842 569 30
05201 49877 21251 17119 11692 86929 30948 95112 85814 61418
38300 84037 79444 15514 43089 02506 59152 24621 10118 88374
58443 52335 12710 59999 02751 69161 95057 71713 05623 27187
569 30 00000

**6946 kHz, 04-02, 1615 UTC, unscheduled transmission, no carrier**
409 367 25
36857 72466 11763 12660 55065 60923 05490 60273 96915 33520
07355 74842 50182 72942 24901 39666 34260 65698 13310 18803
85247 46258 89819 97940 04009
367 25 00000

**9463/12164/9337/8077 kHz, 07-02, 1000/1036/1230/1300 UTC**
**12164 is a spurious frequency**
480 752 41
77479 03752 62892 95901 70394 16432 54239 60685 45440 93446
16377 82115 50637 57420 10276 03243 48730 41612 13948 73415
55663 25581 77890 31175 47907 42842 41314 59321 99407 13073
89496 01428 13748 38932 10878 44775 21692 07355 01994 73310
61447
752 42 00000

**15614 kHz, 09-02, 0930 UTC**
842 970 31
12028 67703 72478 01984 70978 14694 09157 96647 13832 42568
46147 17655 38879 66582 53753 61612 29608 81491 67340 88332
75007 56828 32499 90390 36068 63143 04987 36595 81905 46390
91400
970 31 00000

**9463/9337/8077 kHz, 14-02, 1000/1230/1300 UTC**
480 712 44
52066 01630 66200 57401 84853 00773 88198 03406 11905 45671
09335 66502 84676 22763 63948 35769 95824 79412 98651 94441
68080 27822 77305 23843 95883 08867 73626 67677 92924 75241
15470 32175 64478 75710 14096 73995 85328 87650 23576 55716
55206 60429 13963 73321
712 44 00000

**17440/15614 kHz, 16-02, 0830/0930 UTC**
842 156 32
34814 18046 15576 71034 17190 66339 99169 99947 17933 58251
36344 56976 74409 74930 79387 11365 46779 61867 54272 60516
34829 56847 19136 19196 77728 32448 95531 54495 72623 32774
70858 21768
156 32 00000

**9463/7353/9337/8077 kHz, 28-02, 1000/1030/1230/1300 UTC**
480 129 45
26968 41395 63128 96786 40981 20337 35927 48027 34648 30416
98984 84605 62433 92695 18405 48811 46057 69549 98345 46084
51275 56631 32823 01662 61147 39116 81816 88102 52005 49441
82278 69397 10380 76271 14863 88731 73774 73536 63766 95243
28064 45881 72465 94685 14422
129 45 00000

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## *S11a*

**7504 kHz, 07-02/10-02, 0915 UTC**
482/36 Vnimaniye
88235 71251 86611 91971 74522 29369 98282 67141 53228 09465
23347 31803 17146 27156 20039 48709 88721 38834 51928 77870
28922 37852 65187 87693 03668 66063 83907 74880 81235 86585
75317 91638 98015 93342 35021 76020
Vnimaniye, rpt msg, konets

**12530 kHz, 13-02/16-02, 1015 UTC**
476/40 Vnimaniye
96641 87539 01373 13198 71768 33409 25503 49447 98114 18566
12520 82535 72375 58317 24951 67681 22477 99885 42600 87181
52540 72296 40906 38739 73279 14476 06505 86657 13076 62729
23806 42763 16856 19617 71408 48631 55695 89672 52558 12046
Vnimaniye, rpt msg, konets

**10728 kHz, 18-02, 1540 UTC**
563/31 Vnimaniye
67733 02039 94299 39529 70472 90381 05602 55466 88702 00156
39277 04944 99317 82906 89837 69393 57209 61721 91320 06430
75992 08748 94338 78236 50521 65123 78288 68406 65717 40882
00323
Vnimaniye, rpt msg, konets

**4828 kHz, 21-02/24-02, 0455 UTC**
327/32 Vnimaniye
26735 95514 02142 11629 78218 82951 65531 23064 04457 25900
88486 89705 84942 60139 51848 26666 21087 18916 85205 96632
47411 40662 06930 04692 90587 07603 14020 19267 77919 88803
13812 81993
Vnimaniye, rpt msg, konets

**9610 kHz, 21-02/24-02, 1020 UTC**
422/30 Vnimaniye
56837 24797 99432 62517 63752 76126 11577 05845 23864 00714
01157 92091 88676 65744 42816 69694 62062 55217 21397 15371
43137 93988 85324 68608 24178 66294 23911 21459 95806 25485
Vnimaniye, rpt msg, konets

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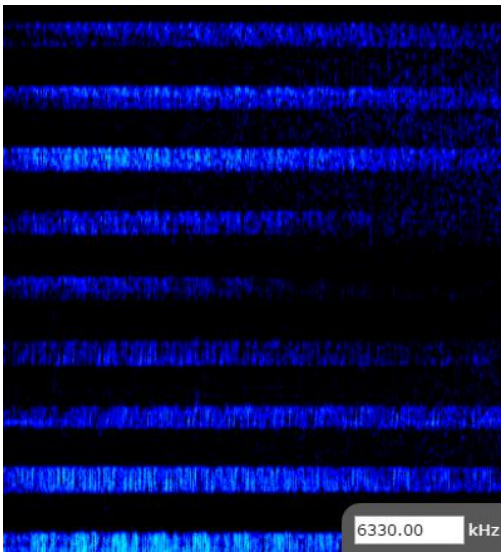
## *S28 - The Buzzer*

Mode: USB
Frequency: 4625 kHz

| Freq | Date | UTC | Details |
|---|---|---|---|
| 4625 | 2-2 | 0938 | ZhUOZ 05680 VYRUB 04672229 LYeDOBICh 81792996 |
| 4625 | 2-2 | 0941 | ZhUOZ 88925 GLIFOHRYaK 44618565 |
| 4625 | 2-2 | 0954 | ZhUOZ 59962 KAMA 89058097 |
| 4625 | 2-2 | 1001 | ZhUOZ 56067 VIZGOTRUD 58803520 |
| 4625 | 2-2 | 1034 | ZhUOZ 26950 DIODOSYeRB 49719078 IL'MOPOT 18703593. Female voice on background "Operative duty officer..." |
| 4625 | 2-2 | 1107 | ZhUOZ 21206 ZhMYHOVUZ 89557632 |
| 4625 | 2-2 | 1119 | ZhUOZ 70065 GONGOLYaRD 23451599 |
| 4625 | 2-2 | 1121 | ZhUOZ 24246 ANAPLAZMOZ 39431900 |
| 4625 | 6-2 | 0754 | ZhUOZ 98034 VYMYeTAN'Ye 57555524 |
| 4625 | 6-2 | 0757 | ZhUOZ 20520 ISSTUPLYeNIYe 44612701 KYePLYeR 36026413 |
| 4625 | 6-2 | 0831 | ZhUOZ 76190 BOLOPYeK 51545596 |
| 4625 | 6-2 | 1154 | ZhUOZ 48160 KYeBOShLAG 33869636 |
| 4625 | 6-2 | 1203 | ZhUOZ 62484 ZhAVORONOK 93254230 LAFA 94377557 |
| 4625 | 6-2 | 1223 | ZhUOZ 09844 BASOFAKT 32236125 |
| 4625 | 6-2 | 1257 | ZhUOZ 95192 ZhGUTOPLYaS 28047084 |
| 4625 | 6-2 | 1345 | ZhUOZ 46929 DYeRZhAVA 85521018 |
| 4625 | 6-2 | 1431 | ZhUOZ 31399 AMPYeRMYeTR 27425358 |

| Freq | Date | UTC | Details |
|---|---|---|---|
| 4625 | 7-2 | 1543 | ZhUOZ 70010 BAROSPOJ 80152030 |
| 4625 | 7-2 | 1656 | ZhUOZ 04051 LZhYeCOCYeNT 01580172 |
| 4625 | 8-2 | 1351 | ZhUOZ 29381 ZhITYeL' 25898310 |
| 4625 | 11-2 | 1803 | Buzzer channel marker |
| 4625 | 12-2 | 1235 | ZhUOZ 88406 GORNOKAYuK 38767856 |
| 4625 | 12-2 | 1249 | ZhUOZ 84518 GRIMOChYeRT 60899529 IDYeALIZACIYa 16346291 |
| 4625 | 12-2 | 1343 | ZhUOZ 25811 BRYeDORYeJN 25072604 |
| 4625 | 15-2 | 1618 | ZhUOZ 33275 GIPSOSTYK 04980989. Female voice on background |
| 4625 | 15-2 | 1719 | ZhUOZ 28000 AFONOKOM 98595763 |
| 4625 | 16-2 | 1355 | ZhUOZ 11598 INAKOMYSLIYe 00000000 Almost inaudible due to failed upink from operator |
| 4625 | 16-2 | 1727 | ZhUOZ 56364 BOSSOBUK 22080101 VIZGOFTOR 10790397 BURYeVYeSTNIK 28969772 |
| 4625 | 17-2 | 0547 | Buzzer channel marker |
| 4625 | 17-2 | 1644 | Buzzer channel marker //6330 kHz (mirror) |
| 4625 | 17-2 | 1716 | Buzzer channel marker |
| 4625 | 20-2 | 1002 | ZhUOZ 33838 BITOKON 94001376 |
| 4625 | 20-2 | 1004 | ZhUOZ 88578 YeZhOShLIH 71179875 |
| 6330 | 17-2 | 1644 | Buzzer channel marker mirror //4625 kHz |




6330 kHz, 17-2, 1644 UTC

Buzzer channel marker mirror //4625 kHz

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## *S30 - The Pip*

Modes: CW (Pip), USB (messages)
Frequencies: 3756 kHz (night), 5448 kHz (day)

| Freq | Date | UTC | Details |
|---|---|---|---|
| 3756 | 2-2 | 1615 | SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY |
| 3756 | 6-2 | 0449 | 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 |
| 3756 | 6-2 | 1342 | 8S1Shch 31197 GROBOPLYaS 04584253. Time mark after the message |
| 3756 | 6-2 | 1428 | 8S1Shch 21625 GROShOPOL 99859349. Time mark after the message |
| 3756 | 6-2 | 1627 | LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB |
| 3756 | 7-2 | 0402 | 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B |
| 3756 | 7-2 | 1457 | CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA |
| 3756 | 7-2 | 1544 | 8S1Shch 57707 INDOL 85736911. Time mark after the message |
| 3756 | 7-2 | 1553 | 8S1Shch 03052 LUBOBAS 13299675. Time mark after the message |
| 3756 | 8-2 | 0524 | VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' |
| 3756 | 8-2 | 1454 | DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 |

| Freq | Date | UTC | Details |
|---|---|---|---|
| 3756 | 8-2 | 1712 | HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P |
| 3756 | 10-2 | 0459 | F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG |
| 3756 | 10-2 | 1708 | M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 |
| 3756 | 11-2 | 0507 | V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' |
| 3756 | 11-2 | 1805 | Pip channel marker |
| 3756 | 11-2 | 1828 | 7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 |
| 3756 | 12-2 | 1715 | 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' |
| 3756 | 15-2 | 0458 | 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF |
| 3756 | 15-2 | 1618 | 8S1Shch 92559 KYeDROZAYaC 00706129. Time mark after the message |
| 3756 | 15-2 | 1719 | 8S1Shch 11408 LAZOSKOP 80450273. Time mark after the message |
| 3756 | 15-2 | 1920 | 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O |
| 3756 | 16-2 | 1446 | 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN |
| 3756 | 16-2 | 1716 | MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch |
| 3756 | 16-2 | 1728 | 8S1Shch NYeOSTRYJ 6558 Test count before the message |
| 3756 | 17-2 | 0538 | 8S1Shch VYZhIMOChNYJ 9579 Time mark after the message |
| 3756 | 17-2 | 1650 | Pip channel marker |
| 3756 | 17-2 | 1713 | LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB |
| 3756 | 17-2 | 1725 | Pip channel marker |
| 3756 | 18-2 | 1504 | 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B |
| 3756 | 18-2 | 1743 | INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 |
| 5448 | 12-2 | 0529 | 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch |

## *S32 - Squeaky Wheel*

Mode: USB
Frequencies: 3828 kHz (night), 5473 kHz (day)

| Freq | Date | UTC | Details |
|---|---|---|---|
| 3828 | 2-2 | 1714 | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeNZA-07 DUBLYoR-68 STAZhER-29 |
| 3828 | 7-2 | 1548 | AL'FA-45 37116 BYeLOLICYJ 60746179 |
| 3828 | 7-2 | 1557 | AL'FA-45 86694 GAZOSVARShchIK 90383532 |
| 3828 | 8-2 | 0408 | AL'FA-45 KAFYeL'NYJ 1439 DOTIROVAN'Ye 9398 |
| 3828 | 8-2 | 1526 | ShchCYe9 19BT Shch8AF M7KS 47235 56637 74194 98007 BASKOHVAT 32971730. Error in the repeat |
| 3828 | 8-2 | 1610 | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 |
| 3828 | 8-2 | 1711 | ShchCYe9 19BT Shch8AF M7KS 17273 97849 68768 41375 GORNOVOYaZh 15370264. S30 in the background |
| 3828 | 8-2 | 1725 | ShchCYe9 19BT Shch8AF M7KS 36264 78381 78870 40066 VYeSTOVOYaZh 31718748. S30 in the background |
| 3828 | 8-2 | 1750 | ShchCYe9 19BT Shch8AF M7KS 20845 55311 32128 48925 MYeHOBRYaK 04839357. S30 in the background |
| 3828 | 8-2 | 1815 | ShchCYe9 19BT Shch8AF M7KS 53194 39388 85079 48572 ZVONOKUM 29509422. S30 in the background |
| 3828 | 8-2 | 1856 | ShchCYe9 19BT Shch8AF M7KS 74262 94769 83942 20861 MYeShchANKA 97891913. S30 in the background. Sboj (err |
| 3828 | 10-2 | 1816 | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 |
| 3828 | 11-2 | 1804 | Squeaky Wheel channel marker |
| 3828 | 12-2 | 1742 | ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 |
| 3828 | 14-2 | 0345 | KZV' DSAS PMV5 62010 08771 46419 KANT 98802122 |
| 3828 | 14-2 | 0351 | KZV' DSAS PMV5 43754 62429 85437 AMILOIDOZ 60803387 |
| 3828 | 14-2 | 0356 | KZV' DSAS 51221 23117 MONONUKLEOZ 78283112 |
| 3828 | 15-2 | 0256 | KZV' DSAS PMV5 71205 45065 48059 ISKOKLIR 49927110 |
| 3828 | 16-2 | 1657 | AL'FA-45 19051 75788 74254 LUKOKLUB 75899661 |
| 3828 | 16-2 | 1730 | AL'FA-45 NYeOSTRYJ 6558 (relayed from S30) |

| Freq | Date | UTC | Details |
|---|---|---|---|
| 3828 | 16-2 | 1737 | AL'FA-45 NYeOSTRYJ 6558 (relayed from S30) |
| 3828 | 16-2 | 1758 | ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 |
| 3828 | 17-2 | 0440 | AL'FA-45 VYZhIMOChNYJ 9579 Relayed from S30 |
| 3828 | 17-2 | 1651 | Squeaky Wheel channel marker |
| 3828 | 17-2 | 1704 | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 |
| 3828 | 17-2 | 1727 | Squeaky Wheel channel marker |
| 3828 | 18-2 | 1724 | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 |
| 5473 | 6-2 | 1347 | AL'FA-45 18207 MYeNTOTRON 50484644 |
| 5473 | 7-2 | 0627 | STOROZh-62 YaHTA-94 RUZh'E-26 KOVBOJ-39. S30 in the background |
| 5473 | 7-2 | 0700 | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeNZA-07 |
| 5473 | 7-2 | 1356 | AL'FA-45 84696 37132 32150 57617 BRYaKOVTUZ 63188366. S30 in the background. Time mark after the message |

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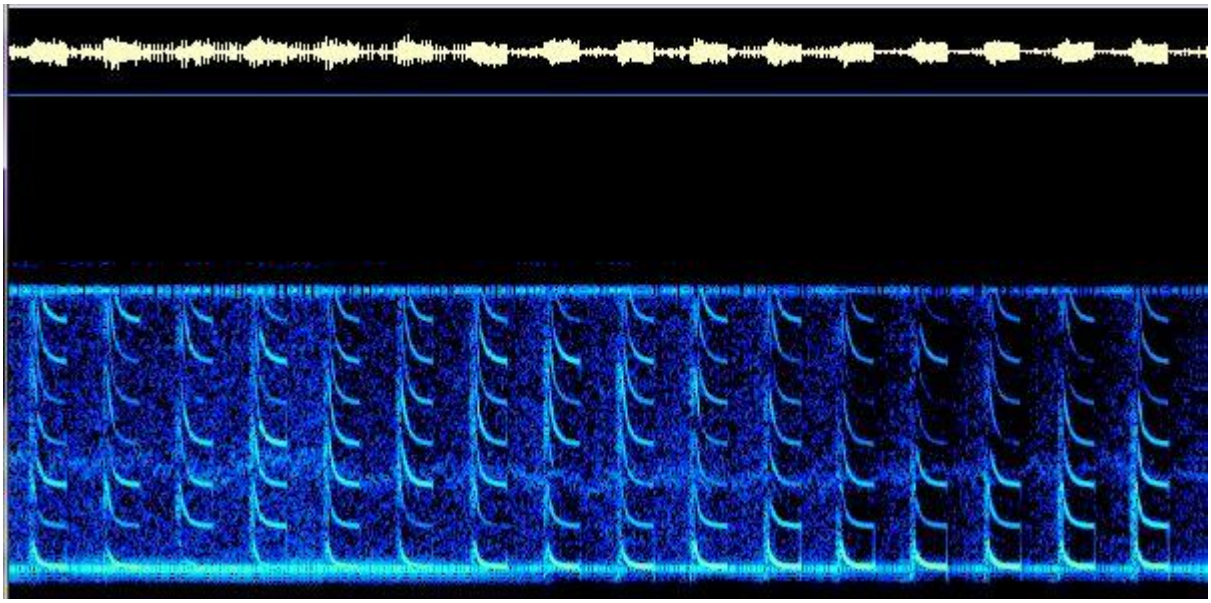
## *S4020 - Air Horn*

Frequency: 4020 kHz
Mode: USB

A new Russian network control station was discovered in the first days of February. It uses a buzzer-like channel marker (recording on the N&O website).



4020 kHz channel marker

| Freq | Date | UTC | Details |
|---|---|---|---|
| 4020 | 2-2 | 1600 | Air-horn marker |
| 4020 | 2-2 | 2054 | Air-horn marker |
| 4020 | 3-2 | 1711 | Air-horn marker |
| 4020 | 4-2 | 0536 | Air-horn marker |
| 4020 | 5-2 | 0546 | Air-horn marker |
| 4020 | 7-2 | 0816 | Provoditsya tekhnicheskaya proverka (Conducting technical test) |
| 4020 | 7-2 | 1004 | Test counts |
| 4020 | 8-2 | 1301 | Buzzer-like channel marker |
| 4020 | 8-2 | 1332 | Test count: 1 2 3 4 5 6 7 8 9 10 priyom |
| 4020 | 11-2 | 1801 | Buzzer-like channel marker |
| 4020 | 15-2 | 1347 | Air-horn marker |
| 4020 | 16-2 | 1945 | Air-horn channel marker |

| Freq | Date | UTC | Details |
|---|---|---|---|
| 4020 | 17-2 | 1647 | Air-horn channel marker |
| 4020 | 17-2 | 1707 | Air-horn channel marker |
| 4020 | 18-2 | 1956 | Air Horn channel marker |
| 4020 | 28-2 | 0458 | Channel marker |

## *S4467*

Frequency: 4467 kHz
Mode: USB

Another new network control station appeared on 4467 kHz. It is most likely connected to S32 as you can often hear S32 in the background when messages are being sent.

| Freq | Date | UTC | Details |
|---|---|---|---|
| 4467 | 8-2 | 0514 | VOLNUShKA-7 KAFYeL'NYJ 1439. Test count before the message. Relayed from S32 |
| 4467 | 8-2 | 0515 | VOLNUShKA-7 DOTIROVANIYe 9398. Relayed from S32 |
| 4467 | 8-2 | 1459 | BUShLAT-11 radio checks with MOTOK-21 PLATIN-33 MYeLIKJ-25 TAFLON-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 |
| 4467 | 8-2 | 1705 | VOLNUShKA-7 ZANOSHYeNNYJ 3116. S32 in the background |
| 4467 | 8-2 | 1742 | Test count |
| 4467 | 8-2 | 1802 | BUShLAT-11 radio checks with MOTOK-21 LAKYeR-33 MYeLKIJ-25 KATUShKA-11 SYeGMENT-62 SAMOSVAL-64 KLAVIShA-4 |
| 4467 | 10-2 | 1703 | Test count. BUShLAT-11 radio checks with MOTOK-21 PLATIN-33 MYeLIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-1 |
| 4467 | 11-2 | 0527 | BUShLAT-11 wkg KLAVIShA-45 |
| 4467 | 11-2 | 1800 | BUShLAT-11 radio checks with MOTOK-21 LAKYeR-33 MYeLIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT- |
| 4467 | 13-2 | 1858 | BUShLAT-11 MOTOK-21 KLAKYeR-33 MYeLIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 KLAVIShA-45 |
| 4467 | 15-2 | 1714 | VOLNUShKA-7 LYeYeROKRYeM 1928 (relayed from S32) |
| 4467 | 15-2 | 1723 | VOLNUShKA-7 42913 ZYeTOFIKS 25899874 (relayed from S32) |
| 4467 | 15-2 | 1805 | BUShLAT-11 MOTOK-21 KLAKYeR-33 MYeLIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 ALMATA-54 KLAV |
| 4467 | 17-2 | 0441 | VOLNUShKA-7 VYZhIMOChNYJ 9579<br>Transmission failed on first attempt. Female operator tried to read the signal with S32 callsign AL'FA-45. Wrong words used for letters (Vladimir instead of Vasilij for V, Zhuk instead of Zhenya for Zh) Relayed from S32 and S30 |
| 4467 | 18-2 | 1745 | Test count |

## *S5292*

Frequencies: 5252 kHz
Mode: USB

| Freq | Date | UTC | Details |
|---|---|---|---|
| 5292 | 7-2 | 0915 | RYeGATA-75 VIZIR-21 89731 DOROGA 54771222. Test count before the message |
| 5292 | 7-2 | 1259 | FAZAN-37 98257 PAMYaT' 54549698 |
| 5292 | 11-2 | 1107 | FAZAN-37 12352 PRYZhOK 27568753. Count before the message |
| 5292 | 11-2 | 1152 | FAZAN-37 98865 HIMIYa 74498347 |

## *S6930*

Frequencies: 4224.5 & 6930 kHz
Mode: USB

4224.5 kHz, 14-2, 1545 UTC  KATOK-65 96085 KAPRONIL 11271248

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## *V15*

Via Radio Pyongyang / Voice of Korea

Moomin reports that the Echo of Unification started to transmit on new frequencies on 21 Dec. (SW, FM, but MW has gone) They also began to broadcast Pyongyang, including V15, on FM 92.5 92.8 93.6 103.7 MHz.

Radio Pyongyang QSL card from the early 1990's

## *V24*

**V24 Schedule, first quarter, 2017** **V24 Schedule Version 17.0, Token**

| Day | 1230 | 1300 | 1330 | 1400 | 1430 | 1500 | 1530 | 1600 | 1700 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 6310 | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | 6310 | | |
| 4 | | | | | | | | | |
| 5 | | | | | | 6215 * | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | 6215 * | | | |
| 8 | | | | | | | 6310 | | |
| 9 | | | | | | 6215 * | | | |
| 10 | | | | | | | | | |
| 11 | | | | | 4925 | | | 5115 | |
| 12 | | | | | | | | | |
| 13 | | | | | 4925 | | | 5115 | |
| 14 | | | | | | | | | |
| 15 | | | | | 4925 | | | 5900 | |
| 16 | | | | | | | | 5115 | |
| 17 | | | | | | | | | |
| 18 | | | | 5150 | | | | 5900 | |
| 19 | | | | | | 5715 | | | |
| 20 | | | | | | | | | |
| 21 | | | | 5150 | | 5717 | | | |
| 22 | | | | | | | | 5900 | |
| 23 | | | | | | | 4900 | | |
| 24 | | | | | | | | | |
| 25 | | | | 5150 | | | 4900 | 5900 | |
| 26 | | | | | | 5715 | | | |
| 27 | | | | | | | 4900 | | |
| 28 | | | | | | | | | 5900 ? |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |

**Based on observations from August, 2016, to 05 February, 2017.**

**Significant changes as of 1 January, 2017. Changes may not be fully represented yet, as it typically takes 2 months to confirm all changes.**

*** Day 5, 7, and 9 time slot on 6215 kHz, at 1500 UTC, seems to be sporadic, it is seen often, but not every month.**

**? Note the 1700 UTC time slot on day 28. V24 was active one time (January 28, 2017) for this time slot, it is unknown as of yet if this was a test or if it is a new slot. That is why that entry is marked with a "?"**

**03 February an as yet UNIDed Shortwave Broadcast station became active daily on the frequency 4900 kHz from 1200 UTC until 1600 UTC. This will likely impact the remaining 4900 kHz V24 schedule, on day 23, 25, and 27, at 1530 UTC.**

**Transmit site potentially identified as Gongneung, Seoul, South Korea, 37.638548, 127.110523**

Check for the most up to date skeds http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_M94_latest_sched.JPG

## *V28*

3141 kHz, 11-2, 0930 UTC Messages in Korean. Female operator

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## *MORSE STATIONS*

## *M01*

**5464 kHz, 12-02, 0700 UTC**
197 (R) 234 234 30 30 = =
89714 07120 28143 81211 00909 33899 40994 26952 86255 58743
17034 52495 53781 90107 49460 81169 20816 29489 82585 86847
59247 60341 09626 95155 27851 17465 34269 51878 34790 74210
= = 234 234 30 30 000

**5320 kHz, 14-02, 1800 UTC**
197 (R) 391 391 30 30 = =
59096 96830 62701 59304 66795 75960 60110 94884 66763 07465
01837 09824 10005 68095 06008 10642 96972 56592 83271 96081
43156 20752 59803 17826 37445 93874 22355 54375 35848 05480
= = 391 391 30 30 000

**4490 kHz, 14-02, 2000 UTC**
197 (R) 525 525 30 30 = =
19704 36433 94916 10189 11782 54105 72058 59636 33134 48551
35021 05611 49256 33727 58204 45059 65233 73476 55818 01486
35034 27615 91449 91449 56972 72735 25264 94499 89499 59541
= = 525 525 30 30 000

**5810 kHz, 18-02, 1500 UTC**
197 621 30 =
78009 34245 67545 00341 83910 32142 78099 77091 10234 20874
38098 88098 10023 45400 90123 34321 11020 34212 78098 89221
65654 12312 23210 87098 95611 31092 33412 81022 89211 32456
621 30 000

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## *M01a*

**4907 kHz, 14-02, 1314 UTC**
i.p. 13769 62840 89100 87875 11044 64707 27074 68211 31667 41934 36472 90414 = =
328 328 35 35 000

**4907 kHz, 14-02, 1324 UTC**
162 162 162 687 82 687 82
162 162 162 687 82 687 82
111
162 162 162 687 88 687 88
162 162 162 687 88 687 88
111 999
329 55
340 340 35 35 = =
16603 90545 63812 91818 03059 41983 96052 78307 11230 66567
55165 71058 65678 21540 64497 00646 65920 85074 78427 47266
16603 36472 30313 76331 42109 13769 91222 04995 86883 07428
07596 38006 12290 21099 30055 =
340 35 000

**4907 kHz, 14-02, 1350 UTC**
513 513 513 363 67 363 67
513 513 513 363 67 363 67
513 513 513 363 67 363 67

**4899 kHz, 14-02, 1400 UTC**
231 231 231
231 231 231
111

**4916 kHz, 14-02, 1407 UTC**
231 231 231
231 231 231
111

**4899 kHz, 14-02, 1408 UTC**
839 839 839 657 10
111

**4514 kHz, 14-02, 1424 UTC**
459 459 459 433 16 433 16
459 459 459 433 16 433 16
459 459 459 434 68 434 68
040 02
333 00
459 459 459 333 00
111 999
952 20 =
55112 57883 40194 50169 19124 41070 95899 21522 13578 97041
66262 33994 22661 61332 24279 59647 82377 11892 20872 21262 =
952 20
111 000

**4404 kHz, 14-02, 1439 UTC**
455 455 455 460 90 460 90
455 455 455 460 90 460 90
111 000
333 569 31
040 02
455 111 000
111 000
455

**4502 kHz, 14-02, 1523 UTC**
190 190 190 241 29 241 29
190 190 190 241 29 241 29
190 190 190 240 49 240 49
190 190 190 236 59 236 59
040 02
333 249 04
190 190 190 249 04 249 04
190 190 190 247 40 247 40
190 190 190 236 51 236 51
190 190 190 236 51 236 51

**3223 kHz, 14-02, 1741 UTC**
257 257 257 791 88 791 88
257 257 257 791 88 791 88
257 257 257 792 97 792 97
257 257 257 792 97 792 97

**2726 kHz, 14-02, 1822 UTC**
892 892 892

**2166 kHz, 14-02, 1826 UTC**
236 236 236 196 96 196 96
236 236 236 197 96 197 96
236 236 236 196 74 196 74
040 01
236 236 236 184 04 184 04
236 236 236
040 01
236 236 236
333 18 19
333 18
333 19
111 000

**2142 kHz, 14-02, 1906 UTC**
245 245 245 740 91 740 91
245 245 145 740 91 740 91
245 245 245 740 91 740 91
245 245 245 740 37 740 37
245 245 245 752 77

**2165 kHz, 14-02, 1910 UTC**
333 474 21
333 474 21 333 474 21
040 02
040 02
333 473 21
111
333 154
111 333 14
111 999
157 10 =
79194 42575 30827 92327 65995 57598 60692 84245 95309 14871 =
157 10 000
111 333
157 10 =
79194 42575 30827 92327 65995 57598 60692 84245 95309 14871 =
157 10 000

**2468 kHz, 14-02, 1950 UTC**
496 496 496 811 12 811 12
496 496 496 811 12 811 12
333 811 13
333 811 13
111 000

**2468 kHz, 14-02, 2047 UTC**
496 496 496 816 53 816 53
496 496 496 811 73 811 73
496 496 496 819 93 819 93

**4382 kHz, 14-02, 2130 UTC**
389 389 389 499 53 499 53
389 389 389 490 24 490 24
389 389 389 491 85 491 85

**4907 kHz, 15-02, 0620 UTC, i.p.**
13467 58944 0649 55738 = 345 20 000

**2415 kHz, 15-02, 0625 UTC, i.p.**
16755 16755 16755 859
111 999
246 12 =
37843 63606 19741 28761 84782 22967 46139 59190 90843 61744
19938 34870 =
246 12 000

**4957 kHz, 15-02, 0646 UTC**
513 513 513 361 51 361 51
111 999
346 35 =
54011 25286 96137 20750 02327 32224 78727 73800 57850 84159
85181 29203 19961 82334 52869 32708 85767 82713 22726 0123
98303 43348 27789 44805 64722 65287 13674 93416 64497 20362
95098 07322 81865 13706 15401 =
346 35 000
111 333 01 57950

**3380 kHz, 15-02, 0728 UTC**
647 647 647 467 88 467 88

**3643 kHz, 15-02, 0734 UTC**
104 104 104 379 74 379 74
104 104 104 379 74 379 74
104 104 104 373 93 373 93

**5273 kHz, 15-02, 0757 UTC, i.p.**
= 347 35 000
111 333 00
347 35 000

**5812 kHz, 15-02, 0800 UTC**
870 870 870 992 81 992 81
111

**2317 kHz, 15-02,  1830 UTC**
257 257 257 299 75 299 75
257 257 257 285 81 285 81
257 257 257 285 81 285 81
333 111
040 02
257 257 257 333 19 20
333 19
111 333 20
111 333 00
333 00
111 000

**2227 kHz, 15-02, 1835 UTC, i.p.**
236 24
111 000
111 000
111 333 555 255 11 265 11 236 24 236 24 000

**5317 kHz, 16-02, 1424 UTC**
273 273 273 909 42 909 42
273 273 273 909 42 909 42
040 04

**4753 kHz, 16-02, 1459 UTC**
918 918 918
040 2
333 982 03 333 982 03 333
111 999
384 15 =
03513 20684 74153 50521 75232 97553 52936 14542 65249 83090
28189 12151 03599 05620 45304 =
384 15
111 000

**3361 kHz, 16-02, 1648 UTC**
349 349 349 202 56 202 56
333 349 333 349 333 349
299 63 299 63
111 000

**2722 kHz, 16-02, 1818 UTC**
593 593 593 332 54 332 54
593 593 593 332 54 332 54

**3943 kHz, 19-02, 0542 UTC, i.p.**
111 111 000
111 111 000

**2539 kHz, 21-02, 0501UTC, i.p.**
66145 87224 17103 43761 83708 83319 26342 04989 52150 4980 21073 =
243 74 000
333 111 333 15 95963 000
333
111 333 25 02375 000
111 333 35 92206 000

**7485 kHz, 22-02, 1308 UTC**
273 273 273 668 75 668 75
333 650 57 650 57
333 650 57 650 57
111 000

**7485 kHz, 22-02, 1330 UTC**
273 273 273 170 92 170 92
333 177 22 177 22
111 000

**7485 kHz, 22-02, 1345 UTC**
273 273 273 175 82 175 82
333 179 11 17911
333 177 10 177 10
111 000

**7485 kHz, 22-02, 1401 UTC**
273 273 273 175 83 175 83
111 999
689 19 =
78737 08410 89755 19795 04152 69769 47962 62909 26460 88213
11928 83169 23209 03452 92822 29880 44750 04544 82809 =
689 19 000

**3807 kHz, 24-02, 0721 UTC**
162 162 162 293 73 293 73
162 162 162 207 13 207 13
111 000

**5018 kHz, 25-02, 1000 UTC**
603 603 603 904 22 904 22

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## *M08a*
## *Dirección General de Inteligencia*

qsr711 reports that during most of the month M08a has sent a test pattern in all its schedules. This pattern consists of the letters ANDUW RIGMT (12345 67890) repeated for long periods (approximately the time for a normal transmission). All three slots mostly carried this. Odd huh?

Radio Habana Cuba QSL

I wonder if they also send a QSL for the parts that regularly are heard during the start-up of HM01, V02a and M08a.

## *M12*

**9162/8062/7462 kHz, 02-02/04-02, 1310/1330/1350 UTC**
104 104 104 1 6559 123 6559 123
85872 97136 82301 47892 01751 64569 03443 49917 79565 13950
82720 03701 74227 98073 64465 64358 73569 23637 76457 79927
10776 10268 88787 09572 74678 60272 97210 82360 28971 11248
25833 80176 00395 02696 39742 53798 72374 19428 92573 05958
24340 21926 82850 44163 17931 01733 83516 42648 87256 87842
71934 63890 84214 06669 04149 18112 45429 72318 06757 53722
07042 91212 88418 66097 96434 16024 97949 00907 69607 21619
34431 98350 16164 82107 83827 48041 25398 27757 15130 11131
03056 60332 46137 60385 26441 63960 81730 64445 96059 97246
21298 64054 94655 02525 46327 51021 59692 89589 42337 34414
49329 87952 82610 35419 83468 50832 89762 58095 32903 27622
16217 78273 46520 97894 60233 80501 68737 79695 45926 97130
29896 93214 12684
000 000

**13386/12189/11491 kHz, 03-02, 1230/1250/1310 UTC**
725 725 725 1 3499 74 3499 74
05347 48386 66178 96777 89853 36744 36944 09510 61076 08109
85370 49607 02654 32866 36328 05926 76873 53825 84758 22607
78010 07467 70471 24701 68693 75312 90396 34282 27987 25125
89331 28138 20098 60259 31212 45391 16634 34344 19361 83435
23623 23432 16607 70938 19746 40560 70010 96530 00762 91162
18119 20945 61758 90664 39185 36964 15622 35907 89163 51902
24297 51687 20866 26611 46126 56720 08577 71810 14556 64777
14520 53391 18950 23116
000 000

**13362/11562/10362 kHz, 06-02, 1400/1420/1440 UTC, error**
353 353 353 1 4487 91 4487 91
41649 62887 98442 23240 31681 01632 02990 02045 53597 21361
01327 94670 35106 03478 18788 33744 86231 14999 11628 49289
27791 70869 88255 28153 stops and commences with group 15
353 353 353 1
18788 33744 86231 14999 11628 49289 27791 70869 88255 28153
44112 87200 74688 27448 36205 56352 93119 81565 29181 98335
01250 06154 24616 26987 64210 59640 91768 74522 38213 77128
28565 34878 06941 40966 68525 03555 21974 86279 71448 63476
24854 96624 26720 60696 66556 37937 23593 32123 42081 06550
24746 03304 45331 28450 81093 99056 21131 28299 01071 00711
63304 51053 32642 97101 15195 98657 79395 29831 95211 22610
23227 85748 17355 39791 97638 31689 84308
000 000

**13362/11562/10362 kHz, 08-02, 1400/1420/1440 UTC**
353 353 353 1 4487 91 4487 91
41649 62887 98442 23240 31681 01632 02990 02045 53597 21361
01327 94670 35106 03478 18788 33744 86231 14999 11628 49289
27791 70869 88255 28153 44112 87200 74688 27448 36205 56352
93119 81565 29181 98335 01250 06154 24616 26987 64210 59640
91768 74522 38213 77128 28565 34878 06941 40966 68525 03555
21974 86279 71448 63476 24854 96624 26720 60696 66556 37937
23593 32123 42081 06550 24746 03304 45331 28450 81093 99056
21131 28299 01071 00711 63304 51053 32642 97101 15195 98657
79395 29831 95211 22610 23227 85748 17355 39791 97638 31689
84308
000 000

**5429/ 4629/4029 kHz, 08-02, 2200/2220/2240 UTC**
460 460 460 1 800 67 800 67
69908 30370 13252 27797 29192 96405 68265 76846 60316 53113
95344 04816 08399 76996 33455 95646 85363 92586 61788 88732
55216 41862 64658 06950 60763 04233 43179 37868 69784 34167
95503 43983 52824 95739 88229 33806 35537 78484 80749 07120
46242 55265 13283 38207 69302 58601 68639 13396 57677 52701
83320 66649 95647 21662 86953 61528 75855 34951 34436 76249
09654 30748 77267 01632 62692 11882 37587
000 000

**7637/9137/10237 kHz, 11-02, 0600/0620/0640 UTC**
612 612 612 1 800 67 800 67
69908 30370 13252 27797 29192 96405 68265 76846 60316 53113
95344 04816 08399 76996 33455 95646 85363 92586 61788 88732
55216 41862 64658 06950 60763 04233 43179 37868 69784 34167
95503 43983 52824 95739 88229 33806 35537 78484 80749 07120
46242 55265 13283 38207 69302 58601 68639 13396 57677 52701
83320 66649 95647 21662 86953 61528 75855 34951 34436 76249
09654 30748 77267 01632 62692 11882 37587
000 000

**13362/11562/10362 kHz, 13-02, 1400/1420/1440 UTC**
353 353 353 1 2643 135 2643 135
60339 99655 88292 84200 13300 01019 71238 19133 74841 12664
72731 30307 74906 67879 53750 14206 65544 29854 01978 93114
67987 12308 23237 06000 87680 54027 60349 61202 42863 97229
01980 93978 42794 08455 94350 54484 41883 87583 40614 02937
97547 99832 76680 00502 76220 21941 56085 44357 43547 00436
49902 82581 31971 42521 06417 52953 50539 53345 14334 83322
66009 60696 83223 63240 37853 45098 64661 34569 78333 97313
65554 65056 73344 67995 71903 45671 92034 28194 05877 24476
22938 72036 30392 09247 72241 81086 68084 11497 61153 54020
39413 37675 98231 92219 87626 48916 49529 48923 21765 85670
20330 15791 94028 58988 80838 60417 82955 78691 78365 06757
38662 10061 44168 40612 04122 54780 83027 63012 54781 97672
33070 65828 19326 20446 20685 93689 95983 29091 12467 67838
01312 08203 80000 83226 90440
000 000

**6904 kHz, 15-02, 1730 UTC**
257 257 257 1 8364 81 8364 81
97396 27691 76484 04719 99546 68317 73107 93733 57522 46771
24344 98287 66815 30806 73735 48910 45851 39414 17793 08790
99529 28607 63660 84517 52347 61661 48602 42726 63994 52386
41758 07432 58597 37729 13096 47718 23081 30366 98441 52915
18698 25663 70040 91178 53760 76840 00694 93690 61281 92089
19930 84873 50456 25474 45531 70849 93257 87539 66957 54542
67139 39634 26463 36360 05002 34947 03270 83121 17055 12216
99686 88398 83739 83013 85248 94195 53010 08643 21532 54897
32769
000 000

**13569/14869/16269 kHz, 16-02/19-02, 1000/1020/1040 UTC**
582 582 582 1 2016 83 2016 83
95483 79897 51890 52046 00716 30466 74958 79495 22534 66373
63334 68272 08877 12598 15978 74165 89837 80981 99330 18868
31929 68830 85729 78208 51470 23278 90375 01899 80355 65317
70373 39802 56426 72019 94644 01445 91985 99038 64610 26877
13295 90682 82204 82885 66615 17846 40676 95494 88360 52869
75893 63811 85416 64580 95935 10952 39852 02165 76093 38797
78302 70393 87277 32951 52552 92357 34354 35923 20407 49761
85980 44243 78295 66663 26768 52136 17378 64539 68436 93361
09660 56465 53493
000 000

**9162/8062/7462 kHz, 16-02/18-02, 1310/1330/1350 UTC**
104 104 104 1 1913 87 1913 87
98525 67263 62087 57849 21714 95592 48369 83513 57635 05092
60439 31690 74133 02495 82599 05423 00938 09673 21833 69635
64107 27519 85943 10933 57684 97871 66058 72479 64086 48888
66067 60933 07029 81225 61558 94098 76561 66504 65143 10039
27609 11013 55151 46008 70056 66324 91085 46725 27276 00342
12506 52054 72523 81821 87642 28727 63099 64024 59994 15947
09167 83958 73781 91458 03886 15775 94764 66031 70988 49795
20385 63741 33994 75387 32103 60474 14727 42260 60517 85233
40481 10194 42957 90461 58932 48611 99751
000 000

**5429/ 4629/4029 kHz, 22-02, 2200/2220/2240 UTC**
460 460 460 1 6963 177 6963 177
99543 35423 11551 85412 08941 82540 64919 84862 14550 36625
07270 23367 55172 20385 04486 00160 90893 36326 19416 78781
93525 28863 06038 42973 07420 59401 52548 97882 05200 66267
72463 18716 43190 25593 24958 41689 14799 01549 86568 18041
77763 14008 74172 09869 13993 40152 80518 22822 89197 32925
15645 75955 06736 24108 65443 49265 73282 14425 26134 17388
56711 17475 28785 96616 91294 07653 03322 95308 34987 18999
96023 77658 12954 76340 34901 68745 25169 17591 92523 43011
49061 04983 51183 34466 21780 92066 31534 07393 54906 61480
87412 79446 68828 32399 91105 50316 37167 61250 72137 08671
18996 58538 54712 01849 49711 54430 66306 60472 50309 46450
22147 82935 08892 05103 56796 37019 89329 47707 48691 82333
32611 55952 02076 79721 56882 54376 25871 27310 71935 11051
27023 25600 01585 47852 33423 61681 58710 08587 62718 33259
96017 75345 36699 46292 64163 71020 57197 65894 76925 48891
25088 14991 67158 78053 77519 71915 86591 72102 25010 53290
15960 89643 85617 68638 68180 11359 81940 89928 48116 49290
12547 24832 33950 28960 42466 69519 97552
000 000

**13569/14869/16269 kHz, 23-02, 1000/1020/1040 UTC**
582 582 582 1 308 91 308 91
22259 27761 13876 74814 17620 11668 11017 15746 16861 14519
40292 69689 90119 51629 91197 72759 20655 67527 60573 74681
58579 94901 79084 82061 72198 53114 06830 13507 14575 38681
93306 33712 79543 75552 29281 64683 35995 90307 28742 27695
49894 95301 69081 88229 35229 49432 82363 49231 67043 21555
09462 59887 15022 93765 51560 47022 87455 87812 53068 95080
76375 56704 06122 59785 56315 36540 94660 54807 47002 79486
78239 40377 97725 71873 52920 80799 05080 86032 68925 38714
92740 49220 12019 98927 42598 38055 36243 23729 89856 95627
67199
000 000

**7637/9137/10237 kHz, 25-02, 0600/0620/0640 UTC**
612 612 612 1 6963 177 6963 177
99543 35423 11551 85412 08941 82540 64919 84862 14550 36625
07270 23367 55172 20385 04486 00160 90893 36326 19416 78781
93525 28863 06038 42973 07420 59401 52548 97882 05200 66267
72463 18716 43190 25593 24958 41689 14799 01549 86568 18041
77763 14008 74172 09869 13993 40152 80518 22822 89197 32925
15645 75955 06736 24108 65443 49265 73282 14425 26134 17388
56711 17475 28785 96616 91294 07653 03322 95308 34987 18999
96023 77658 12954 76340 34901 68745 25169 17591 92523 43011
49061 04983 51183 34466 21780 92066 31534 07393 54906 61480
87412 79446 68828 32399 91105 50316 37167 61250 72137 08671
18996 58538 54712 01849 49711 54430 66306 60472 50309 46450
22147 82935 08892 05103 56796 37019 89329 47707 48691 82333
32611 55952 02076 79721 56882 54376 25871 27310 71935 11051
27023 25600 01585 47852 33423 61681 58710 08587 62718 33259
96017 75345 36699 46292 64163 71020 57197 65894 76925 48891
25088 14991 67158 78053 77519 71915 86591 72102 25010 53290
15960 89643 85617 68638 68180 11359 81940 89928 48116 49290
12547 24832 33950 28960 42466 69519 97552
000 000

**6835 kHz, 27-02, 0830 UTC, unscheduled transmissions**
687 687 687 1 8590 24 8590 24
22326 68140 47776 90492 78784 82408 68423 59445 08496 92601
52677 35478 43053 53430 05042 84725 55483 32750 04661 67950
58301 02259 98222 99220
000 000

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## *M14*

**5422/5560 kHz, 04-02, 0800/0900 UTC**
171 427 427 68 68
37612 80644 32250 72880 72119 55276 17439 87341 90653 40498
10100 53082 42543 61771 12098 53762 43309 87109 00538 72530
52091 63871 29445 64410 82070 51860 00340 82630 52215 42627
51161 82994 40871 21905 64420 52761 19081 74409 53801 26331
50362 77409 83210 63051 10103 62175 83630 98901 53787 62181
52760 00830 93117 71152 43871 52891 15227 26021 58901 01200
42729 87001 20940 37116 53092 26061 46671 20801
427 427 68 68 00000

**5430/5560 kHz, 11-02, 0758/0858 UTC**
171 490 91 490 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173 45590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 91 490 91 00000

5560 kHz, 11-02, 0831 UTC 05028
5560 kHz, 11-02, 0832 UTC 957
5560 kHz, 11-02, 0850 UTC 89Ö

**5240 kHz, 12-02/19-02, 2300 UTC / 5825 kHz, 13-02/20-02, 0000 UTC**
376 490 91 490 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173 45590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 91 490 91 00000

**4636 kHz, 14-02, 1820 UTC**
186 186 186
Stops at 1823 UTC and resumes at 1829 UTC
518 518 86 86
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241
53712 63490 82310 20943 57286 61220 51 stops and s/off

**4761 kHz, 15-02, 1920 UTC**
186 (R) 586 746 748 518 518 86 86
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241
53712 63490 82310 20943 57286 61220
518 518 86 86 00000

**5430 kHz, 18-02, 0758 UTC**
171 490 91 490 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173 4559
0000000000000000000 pause 000000000000000 pause
45590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 91 490 91 00000

**5560 kHz, 18-02, 0858 UTC**
171 490 91 490 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173
455555555555555555555555555555 pause 5590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 91 490 91 00000

**5430/5560 kHz, 25-02, 0800/0900 UTC**
171 184 184 59 59
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250
73414 53212 07642 46263 34127 09751 49653 12311 84502
184 184 59 59 00000

**5240 kHz, 26-02, 2300 UTC / 5825 kHz, 27-02, 0000 UTC**
376 184 184 59 59
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250
73414 53212 07642 46263 34127 09751 49653 12311 84502
184 184 59 59 00000

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## *M21 + variants*
## *Russian Air Defence Forces*
## *Войска ПВО  Voyska PVO*

| | |
|---|---|
| 2801.5 kHz, 07-02, 1414 UTC | =991716??8????? =991718??8????? =991719??8????? =991720??8????? |
| 3751 kHz, 09-02, 1414 UTC | =99?1714?9????? =99?1715?9????? =99?1716?9????? |
| 3322 kHz, 14-02, 0053 UTC | =990357??0????? |
| 7475 kHz, 23-02, 0515 UTC | =990818??0????? =990819??0????? =990820??0????? =990821??0????? |
| 5980.5 kHz, 23-02, 0657 UTC | =12778719503347 =991148???8????? =22778902040624 =12778719502348 =991149??8????? =12778719502949 =991150??8???? |

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## *M22 - 4XZ*

**10219 kHz, 06-02, 0752 UTC, logged by Sylvain**
VVV DE 4XZ 4XZ = =
IA9E NR 09 TO NR 49 QQL = =
HR0L NR 69 TO GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =
HR7R NR 59 NT GR 51 = =
IA9E NR 09 TO NR 49 QQL = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =
HR7R NR 59 NT GR 51 = =
IA9E NR 09 TO NR 49 QQL = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =

HR7R NR 59 NT GR 51 = =
IA9E NR 09 TO NR 49 QQL = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1

VVV DE 4XL 4XZ = = AR AR NW QTC 1 NR 99 = =
NR 99 PE V PD7G 845060 HR0L GR 51 = =
HRHRH HONOT TEJDF QWXTW XTFOQ HJZAB LWDUS YONLW HSYCN SAYBR
IXMFI GPKJO UZHUO JREUQ HONOT = =
NR 99 PE V PD7G 845060 HR0L GR 51 = =
HRHRH HONOT TEJDF QWXTW XTFOQ HJZAB LWDUS YONLW HSYCN SAYBR
IXMFI GPKJO UZHUO JREUQ HONOT = =
NR 99 PE V PD7G 845060 HR0L GR 51 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 89 = =
NR 89 QA V UQ0L 445060 CM1N GR 51 = =
CNCNC EZXKM WNMEN ATAYE LSOPL ZFHJJ RZLZT LZYTT QLUPN LMCYS XCPLN ...

**10219 kHz, 06-02, 1100 UTC**
VVV DE 4XZ 4XZ = =
NT3F QSL NR 54 / 21 = =
L- RP0O NR 00AW JF GR 02 = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =
HR7R NR 59 NT GR 51 = =
NT3F QSL NR 54 / 21 = =
L- RP0O NR 00WA JF GR 02 = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =
HR7R NR 59 NT GR 51 = =
NT3F QSL NR 54 / 21 = =
L- RP0O NR 001 JF GR 02 = =
HR0L NR 99 PE GR 51 = =
CM1N NR 89 QA GR 51 = =
YX1N NR 79 FF GR 51 = =
HR0L NR 69 TO GR 51 = =
HR7R NR 59 NT GR 51 = =

VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 101 = =
NR 101 WE V QS9E 252160 CM8T L- MZ9E LJ0O GR 32 = =
HTHTH ADFIO THALN AMZYN DQETE MSULU FDMFK LXTBQ KSOMX CCRXI
KFRIC EHSPW DMWJE PFIFK OARTD XRQEN ZUBRU RQKDA RRAHO XRYAH
ERSYG BRWNG ADFIO = =
NR 101 WE V QS9E 252160 CM8T L- MZ9E LJ0O GR 32 = =
HTHTH ADFIO THALN AMZYN DQETE MSULU FDMFY LXTBQ KSOMX CCRXI
KFRIC EHSPW DMWJE PFIFK OARTD XRQEN ZUBRU RQKDA RRAHO XRYAH
ERSYG BWRNG ADFIO = =
NR 101 WE V QS9E 252160 CM8T L- MZ9E LJ0O GR 32 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 001 = =
NR 001 JF V OG3F 030160 L- RP0O GR 02 = =
RORRO HOHIK ROAXW OMCQU ZDAMM AIKLF SSWNY JSTQK XNQZG HGJFX
DFLJY QOQSU ZIXST GXHYC LEKQM ZPJHC RZNKL UEMAO NGQNT HOHIK = =
NR 001 JF V OG3F 030160 L- RP0O GR 02 = =

RORORHOHIK ROAXW OMCQU ZDAMM AIKLF SSWNY JSTQK XNQZG HGJFX
DFLJU QOQSU ZIXST GXHKC LEKQM ZPJHC RZNKL UEMAO NGQNT HOHIK = =
NA 001 JF V T EG3F 030160 L- RP0O GR 02 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 99 = =
NR 99 PE V PD7G 845060 HR0L GR 51 = =
HRHRH HONOT TEJDF QWDTW XTFOQ HJZAB LWDUS YONLW HSYCN SAYBR
IXMFI GPKJO UZHUO JREUQ HONOT = =
NR 99 PE V PD7G 845060 HR0L GR 51 = =
HRHRH HONOT TEJDF QWDTW XTFOQ HJZAB LWDUS YONLW HSYCN SAYBR
IXMFI GPKJO UZHUO JREUQ HONOT = =
NR 99 PE V PD7G 845060 HR0L GR 51 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 89 = =
NR 89 QA V UQ0L 445060 CM1N GR 51 = =
CNCNC EZXKM WNMEN ATAYE LSOPA ZFHJJ RZAIQ LZYTN QLUPN LMCYS
XCPLN GDLSR TQSFW CDDOY EZXKM = =
NR 89 QA V UQ0L 445060 CM1N GR 51 = =
CNCNC EZXKM WNMEN ATAYE R SOPL ZFHJ RZAIQ LZYTN QLUPN LMCYS
XCPLN GDLSR TQSFW CDDOY EZXKM = =
NR 89 QA V UQ0L 445060 CM1N GR 51 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR
NW QTC 1 NR 79 = =
NR 79 FF V EB8T 145060 YX1N GR 51 = =
YNYNY RSUMX JIFXY IKPBZ SKGBD RXUED LOKBF URPSF HIBUB EBEHR
ATMAM AOTMD YKQWH EUSTT RSUMX = =
NR 79 FF V EB8T 145060 YX1N GR 51 = =
YNYNY RSUMX JIFXY IKPBZ SKGBD RXUED LOKBF URPSF HIBUB EBEHR
ATMAM AOTMT YKQWH EUSTT RSUMX = =
NR 79 FF V EB8T 145060 YX1N GR 51 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XM = = AR AR
NW QTC 1 NR 69 = =
NR 69 TO V OG3F 635060 HR0L GR 51 = =
HLHLH MJQZI NCEXP IOCWW FUHZO MKARC SMGJB FEXME QWSSC XICQS
MILKN HBCZC ZQPGN ATGDI MJQZI = =
NR 69 TO V OG3F 635060 HR0L GR 51 = =
HLHLH MJQZI NCEXP IOCWW FUHZO MKARC SMGJB FEXME QWSSC XICQS
MILKF HBCZC ZQPGN ATGDI MJQZI = =
NR 69 TO V OG3F 635060 HR0L GR 51 = = AR AR
VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR

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## *M41*
## *Russian Air Defence Forces*
## *Войска ПВО  Voyska PVO*

**5770 kHz, 07-02, 1402 UTC**
ZJWT ZJWT AR

**2653 kHz, 17-02, 1833 UTC**
52 9100511800
GOLOMINE
995299836 3732 9952990527636

**2568.5 kHz, 18-02, 0513 UTC**
319991000712511800
1909789 1909791 1909787
190878
00964999316191000724511800

**4542 kHz, 20-02, 0600 UTC**
PWZW PWZW =
005726 7114667 91071 04 =
005726 7114667 9109 04 =
5726 7142612 91069 06 =

**6063 kHz, 21-02, 0617 UTC**
QTIL QTIL QTIL
003033 539 54 56 510 91100 511 700 920 =
3033 156 0178 22 =
3033 156 0161 24 =
3033 156 0144 28 =
3033 156 0683 30 =
3033 156 0625 32 =

**4788.5 kHz, 22-02, 0530 UTC**
WV1H WV1H AR 22

**3194 kHz, 22-02, 1400 UTC**
H7BL H7BL AR

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## *M51a - FAV22*

**6825 kHz, 02-02, 0832 UTC, i.p.**
QAQSD NNCJE 74302 DRWED ?/.<SK>' NVBXC NSWPO NDEYJ DJKED AXZVS NVLRU LDPEJ WRSFU 43269 HGKRO /'*,? KDWIC SNSJW VZWPO LFMKR DREGN MCEIS MCKDO AFQTH 01658 GSWPO .<AR>',/ NSYWP ASQEZ NXHWY BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 KFUEI <SK>.'*/ VXBAQ KAOWP BCHWQ CVDBE FKEIS QEAFY CBDFW VFLPE 41203 SPIJG ?/'<SK>' ZAJSU VXBHQ XHQJS BXBWH ALPQE BCBDY CBXBX NXWPO ?.,'/ GDWYD 56320 AZNXM WLJSS FSWTH BXVCS VMKDA ZBCYQ LSOPD VCNWM 93502 JDIWK ?.,<SK>, ZAUSH BDHWA BXVSG GDYWL POFKE NDJAI BCVXA MQIKD MVLAO 56398 KDOWL .,<BT>'/ JXUWG GDJAL PLGOE DJKJF ERYRI VPLTO BCVDS ZXASQ MVLGK OYPUI GFHDJ CSRED 16580 BCJWI .,?*<BT> LMPOY CXRAE XVDRE NBFHG AWQES BCZXR BNFIR PGLRO .?.,' BCHDE 42369 LAPQI WNSYV VCSDW AQLFP RHFUS BCVDW NKGIR BCXWY 54783 CBHQA <SK>'/., YHHBY CXDWE VNYEA AWQEV XVSFW MBFUR AWQLG RYUSN 14790 XMLPO ,.*?<SK> AJAUW XCSAR LDOEJ GMNRY XBSTW DSEWX VNFJE LEPWM 65874 VZQJA <AR>/<SK>., ASZXW CHYDE KFOLG VCRWT CXARQ MFYRU NFNFY AEQDS 12680 GBDHE /.'.? VSFWG XASZW HDJWU LFPRO CXWRG LSHDF VXRAU CLNOP 54103 BCUEL ,.?'/ BCEUF LGPTO VZAXW DHIQU VCGSH PELEO XAQEZ NCBDG MVNBT PTOTI BVNYE SWREG 02589 NCDIE .,<SK>'<AR> NCBDH MNLHK CXSDW ASQWE
CVXBW LGRPO CBHYW NVVNR 45896 BCSHW .,?'/ BCDHE LHPOT BCNDW XMKWU ASQVS NJDEF MFKED VXSGW 47896 VZQAO .?,*' MCDJU MVLOR ACQRZ NCDHE MBCND LGPRO CDWRE NNCJE 74302 BCMAK .,/'<BT> NVBXC NSWPO NDEYJ DJKET AXZVS NVMRU LDPEJ WRSFU 43269 BCCPW ,*.'/ KDWIC SNSJW VZWPO LFMKR DREGN MCEIS MCKDO AFQTH 01658 CAQMK ?.,?/ NCYWP ASQEZ NXHWY BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 VXQAU ,/?,' MVLPE QADTD NDJEI CVDBE FKEIS QEAFY CBDFW VFLPE 41203 CXZBA <BT>.<AR>'? ASQRV NVDYE MCDEI BXBWH ALPQE BCDDY CBXBX MXWPO ?.,'/ CZPLO 58023 SNHWY BDGWT XWEUD MVLEO XWTCN ASKEO DGETQ CBNSK 41123 LMPOI ?.<SK>,' QPALO BCGEY MXNWU VCHWI MVLRO SDQRA XZSBV DMLGS .,?'/ CXABQ 39856 VATYW IDOPW VXCZB LPFDO GDHSJ WNDHE AUJSK QQLAO NBGFV QLMAP JKDUR JSNWK EUIOK HNDTS IKGCV 37628 AYSGX WBSUJ YHYTG DHSJQ BHDTR FJAIK WNDHC VZIJK OLHGF 87452 XVSGR SHWUZ 10964 ETDFX CBSHA WJNHE SHGZU ALSGF LGBCH XNBWH DSJZU AGWCD QKLAU GBXHR SJHAU YHGDV CLQIO AMLJH YHBGR ZUJXV WNGSU 46381 BWNDU ZKQLA PLAYG BVXCD WNSHR ZJHSK GBVCG DJSKZ WKQHJ AKLXV WCSGR ZJHSU 65953 BWNSJ AKUJH DGVXT GHDJA QJAKI HNDKZ WKQLA ZPMQH DGEUZ XBCVF WBQJH SJAUL MQHDF TGDHN 26483 SHBXJ SKQLZ AMPLU JDGXC WBQHZ AGFHC KUIOD XHRIL UJFOR SGXHW 46201 KSJFY XVSJZ LAPMS HWCXV RBSHD KLAUH YHDKZ WBCVX CHFDY ZUJAK 28678 JSKZI WGCPZ SKLQB WNDHR ZUYHF OKSLZ WMQHA WCXHD RTDJS WNCHD SUJRG ZJSKP PMQHF NBCUH PHJDF XVWHR 10735 XVDFZ WHNAY 76382 KQNBX ZJAKO WUJRD XVSJZ VXSYW JSJPO

APQOI VCBSH ZXSKL NMVCB EUYSJ KLJHS VCBXH 02564 BCDFW ?<AR>.,' LPDOU XNCBM XZSAD VCBSG NOLEP VCBSQ RYTUI MDJSI ,'.?/ NSACQ 58401 KDOEP VMDKW LDOUA ZSWOJ BCNDH KDUEI VCNAQ ALPCI 48932 LPOEI ,/.*<SK> ZAQID BBCDJ ALKSO XBCHS SJWIX BCNCJ CMSKW CZFST 12036 SAWQD .?<BT>/? ZNXJS QPLOS DHDWU XBCNS AJSWI XETYC VNMSK AQOIW 89564 JGUYI ?/.,' JQIAL OILPU XVAGW DHFGR VNMEI SAHWU DDPLI CBSJW 23561 VSDWR ?.,<SK>' NCPOE XBSHW SKWOP SABWU CBEYD NBMCK SAJWU XCVWY 43692 BCHWJ .?/*. CXAFQ JFILH MNLFP CNDJE QATLD BVCNE ZMALO OWLPS SHDYE BNNXM AKQIU KFJEI 23658 VCSBS .?,*<SK> IWOEJ VXFSR AHQUS VDGWT SHGYW NCGET SAGQY VXTEU 11976 LMPHO /<BT>.<SK>' BCGCS SALQO ZNXBS DJWUG SLOWP SNDNW SKAYU PWOIE 89650 BXCSD ,*.,/ CXRSY KOSPO BAERE BVNDJ LKOEI DGFWT CXZVA NCBYW 32980 NVHEI .',/? AQPSL MXZNA LAPQI BCVSN SKAOQ XMLJA SHQUX VCBSH 45873 LPFOE '/?<AR>. DKWJH BCNSJ CXGAE CBNSW <AR>.,/' CAZQS 58236 FZDQH VCBHS LKOIE CXAHQ BCNDJ KSLQI NVBDH XZKIW 25869 LMPOS ./?'<SK> ZAKLD OQPKX BVCNS MXJSI VXSYW JSJPO APQOI VCBSH ZXSKL NMVCB EUYSJ KLJHS VCBXH 02564 BCDFW ?<AR>.,' LPDOU XNCBM XZSAD VCBSG NOLEP VCBSQ RYTUI MDJSI ,'.?/ NSACQ 58401 KDOEP VMDKW LDOUA ZSWOJ BCNDH KDUEI VCNAQ ALPCI 48932 LPOEI ,/.*<SK> ZAQID BBCDJ ALKSO XBCHS SJWIX BCNCJ CMSKW CZFST 12036 SAWQD .?<BT>/? ZNXJS QPLOS DHDWU XBCNS AJSWI XETYC VNMSK AQOIW 89564 JGUYI ?/.,' JQIAL OILPU XVAGW D IGR VNMEI SAHWU DDPLI CBSJW 23561 VSDWR ?.,<SK>' NCPOE XBSHW SKWOP SABWU CBEYD NBMCK SAJWU XCVWY 43692 BCHWJ .?/*. CXAFQ JFILH MNLFP VZFTW BCGDJ AZKIW NVBDH POWIU DKJSI ALQOP BVN TM ZLODU * V890 NV EDU *?<BT>., BVNSJ SQOWI CBSNK LAPWI CNSJW ZXSLK SAOMS CD JI 42036 MVKPR .?/M M* LDOWI ZANDJ AQIJD CNBSH NXKAO LAOIS KDOWA XAMLK 17896 XASQE ,'<SK>./ ZSISJ WPLDI JDJWI XZMAK DWIOF BCHSJ MALLO CNSHW 45309 CZXSQ ,<SK>',* ALQOJ VXBZJ ALSKI DLWPO XMZNS KDSLP WIDAM JAMER 18973 NFHRU ./,?<SK> LAOSW JDIWH XZNSJ BMNEO RITOF WEISJ SLWOD CBZMA 32698 ZXAQS .,*<SK>. XZMSN JDGHE DHWIL APQOW CBAJW MLKSI ZXNWB DKOLP 78512 LMKHO ,<SK>.?/ AQPWO CNDJW ANDER MORNI PLOFE XNSIW AQOKS XBNWI 98652 ZSAEQ .,'<SK>* MAGDA LORGH BIDUL WERTY ALPES XCBWU AQKDI NCHSI ,.?'/ NVBDG 48502 AQPOL CMVNE WJCME SWERP LFKHL VBCNW AQISG CBDNI 30258 MBLSO ?.',<BT> VNMRO FKSWU LDPIE XAZSQ NVHDU WOFFL LGPAM CLDPW CXAWS 10589 MCNCH .,*'? VCGSH KGIEO LPSOI JHFRD NJSDE ZPOYT QRWET IYUTO POLKJ ZCXVB MNJHB ASFDG 13957 VXSGW .,'*<SK> QDSSG LJPUO NVBFG YRTQW ASZXA QPLIH BCVDN HDYEI 10369 VXSUW '*?., TRYEU QEWAR BCXDS MJKHU RQEOH BGHVT XAZSQ MNKHJ 47850 BQTBS <SK>*/?. XCZPQ MLHPI XASQW LCMEY RGSGW XCADQ PLKMO ZXCVD 75301 XUWDL ./?,<BT> PLOIU BVDGW QTYRE ZXQWU PRUTY BDGRT XCSRW OKRYU 85247 G IWTJ /?.,' FBFBI PLOIU VZBG TI ETFGR '*F? NVDME 52036 S DGFS SHGCD AZSQL MNEYH DJFVO ALKCJ QWIVJ BDGVX 50369 Q VNR '<SK><AR>.? CBXZN MLFKE CALSD ETFUB MVNDJ SKAOI DJSOW JFEIS LPOID NCZMA XZAIU DWEAS XMCNS 96314 GATSW ./. II*

**ends at 0920 UTC**

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## *M89 - Chinese military*

**10217 kHz, 01-02, 0925 UTC, i.p.**
R IEC BT 1546 AR K
R OK U MSG GA K (Other station also on this frequency but mostly unreadable)
R GA K
R GA K
R RPT 9W TO 10W K
R QSL 1732 K

**4060 kHz, 05-02, 1616 UTC, i.p.**
MSG NR 021 CK 499 44 0206 0000 =
TAU5 AATT 45T3 UT63 (Cont'd) AR
V TR2Q (x3) DE 5TUH (x2)

**4609 kHz, 05-02, 1616 UTC, i.p.**
III = AU7T ATN6 46DN (Cont'd) AR
MSG NR 021 CK 499 44 0206 0000 =
TU64 35N3 7T4A (Cont'd)
III = AU7T ATN6 46DN (Cont'd) AR
V FIK3 (x3) DE H4JH (x2)

Note: Both round slips in traffic at the same time. The one on 4609 sending faster than the one on 4060. Interesting to see that both stations are sending the same message number, group count, date, and time. However, the messages are different!!!

**5588 kHz, 11-02, 1219 UTC**
6NT3 336U 57N5 7TA7 (Cont'd)
III = TTTN 5774 NNNU 73UA T65T (Cont'd)
III = 34UN T5U6 4744 (Cont'd)
E B= 4UN5 5734 5A3D N3T7 D4AU (Cont'd)

**4243 kHz, 12-02, 2347 UTC, i.p.**
4TA U7U N4A 444 3D. TTU TT3 773 (Cont'd) AR
A HR 7G GA
NR 64 CK 16 35 0213 0638 =
UT5 TA3 3U4 3A4 TTU 7T. TTU TT3 773 (Cont'd) AR
A HR 7G GA
NR 25 CK 088 35 0213 ....

**4283 kHz, 12-02, 1327 UTC, i.p.**
TTN 773 3AD 35. U46 353 (Cont'd)
7G AGN
NR 129 CK 189 35 0212 1619
N37 UT3 TAU 3U6 TT4 773 .AD 35A U47 (Cont'd)
ZNN SK

**5104 kHz, 21-02, 1039 UTC**
R VV IVD5 DE NC EEEE
VV DF EEEE
VV B5SJ DE DE NBAR K
R R CY HW ? K
R R 1P 88W = TN54 AR K
R R U WK NR ? K K
R R
VVV W1NT DE DE NBAR K
VV W1NT DE NBAR K
R R CY HW ? K
R R RRR U WK NR ? K
R R
VVV C3QI DE DE NBAR K
R R CY HW ? K
R R U WK NR ? K
R RR HR WK NR NR 110 K K
SK SK GB GB GB

**5285 kHz, 21-02, 1053 UTC, i.p.**
6UA3 5D3N 756U DA5T
AR QSL ? K
R MSG GA K
R QSL 1859 K
R MSG NR 7925 CK 100 86 0221 1840 RMKS 4320943 TO 4320940 =
TD75 7534 N4D5 TUDA D75T (Cont'd)
AR QSL ? K
R U MSG GA K
R QSL 1910 K
R MSG NR 7926 CK 100 58 0221 1840 RMKS 4320943 TO 4320940 =
UA6T 37ND 5U4D 5A7N 45A7 (Cont'd)
AR QSL ? K
R SK SK

**5523 kHz, 21-02, 1226 UTC, i.p.**
2017 =
.NJ/SGS AR K
FFF NR 10.4/EX 2.1.=
D../.GS AR K
IRF8 IFR8 ... K
N57. ? AR
SRFI SRU8 DE 5B.G K
KLM7 R R KLM7 R

**4060 kHz, 28-02, 1449 UTC, i.p.**
MSG NR 11. CK .. .. 0228 2230 =
45T3 UT63 A3NT UAD7 6DTA 7A3T 6TA7 ATTN TTT7 NTTA (Cont'd) AR

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## *M90*

**3388 kHz, 20-02, 1830 UTC**
JBF5 DE TLR2 INT QSA K
U8D8 QSA 4 K
G6CS QSA 5 K
JBF5 DE TLR2 QSA 5 AR

**3388 kHz, 20-02, 1834 UTC**
JBF5 DE TLR2 ZNB 967 01 K
U8D8 ZNB 508 32 K
G6CS ZNB 286 89 K
TRL2 C AR

**3388 kHz, 20-02, 1842 UTC**
JBF5 DE TLR2 QSY 2 ZNB 516 12 K
U8D8 R K
G6CS R K
JBF5 DE TLR2 AR

**3388 kHz, 21-02, 0700 UTC**
JBF5 DE TLR2 INT QSA K
U8D8 QSA 4 K
G6CS QSA 5 K
JBF5 DE TLR2 QSA 5 AR

**3388 kHz, 21-02, 0707 UTC**
JBF5 DE TLR2 ZNB 672 04 K
U8D8 ZNB 412 24 K
G6CS ZNB 814 37 K

**3388 kHz, 21-02, 0712 UTC**
JBF5 DE TLR2  XXX 999 K
U8D8 444 K
G6CS 999 K

**3388 kHz, 21-02, 0720 UTC**
U8D8 de TLR2 ZWF XXX 999 K
U8D8 999 K
TLR2 C AR

**3388 kHz, 21-02, 0724 UTC**
JBF5 DE TLR2 ZBO P K
U8D8 QRV K
TLR2 de G6CS ZBO P K
U8D8 QRV K
JBF5 de G6CS ZBO P K
TLR2 QRV K
U8D8 QRV K

**3388 kHz, 21-02, 0731 UTC**
JBF5 de G6CS ZNB K
TLR2 QRV K
U8D8 QRV K
G6CS - P - 08 20 - ZEU - GR 30 = NVGDR NYVAE MGJGI …
JBF5 de G6CS XXX 333 P K
TLR2 333 K
U8D8 333 K
JBF5 de G6CS AA BDFCR = VCRDZ …
0741z
TLR2 R K
U8D8 R K

**3388 kHz, 21-02, 0911 UTC, voice traffic**

**4852 kHz, 21-02, 0732 UTC**
HR3H DE CQXJ XXX DEDUKCE 176 K
XVSQ DEDUKCE 176 K
PBFJ DEDUKCE 176 K
EGK6 DEDUKCE 176 K
SVNX DEDUKCE 176 K
MXV5 DEDUKCE 176 K
ICFV DEDUKCE 176 K
PJP6 DEDUKCE 176 K
CQXJ C AR

**4852 kHz, 21-02, 0754 UTC**
CQXJ DE MXV5 ZBO K
CQXJ QRV K
MXV5 - R - 0850A - ZEU - GR 20 = FGHUZ EDCVF … K

**4852 kHz, 21-02, 0758 UTC**
CQXJ IMI GR 15 K
MXV5 IMI GR 15 = AYSXD K
CQXJ R K
MXV5 AR

**4852 kHz, 21-02, 0801 UTC**
CQXJ de DE SVNX ZBO K
CQXJ QRV K
SVNX - R - 0859A - ZEU - GR 20 = URMEL PAOSL … K
CQXJ IMI GR 1 GR 20 K
SVNX IMI GR1 = URMEL IMI GR 20 = OAIDJ K
CQXJ R K
SVNX AR

**4852 kHz, 21-02, 0811 UTC**
CQXJ de PBFJ ZBO K
CQXJ QRV K
PBFJ - R - 0910A - ZEU - GR 20 = XLZPS RSBXF … K
CQXJ R K
PBFJ AR

**4852 kHz, 21-02, 0816 UTC**
CQXJ de PJP6 ZBO K
CQXJ QRV K
PJP6 - R - 0900A - ZEU - GR 20 = ASFDA NOXUW … K
CQXJ R K
PJP6 AR

**4852 kHz, 21-02, 0823 UTC**
HR3H de CQXJ XXX RELAX 692 K
XVSQ RELAX 692 K
PBFJ RELAX 692 K
EGK6 RELAX 692 K
SVNX RELAX 692 K
MXV5 RELAX 692 K
ICFV RELAX 692 K
PJP6 RELAX 692 K
CQXJ C AR

**4852 kHz, 21-02, 0828 UTC**
HR3H de CQXJ ZBO K
XVSQ QRV K
PBFJ QRV K
EGK6 QRV K
SVNX QRV K
MXV5 QRV K
ICFV QRV K
PJP6 QRV K
CQXJ - R - 0925A - ZEU - GR 20 = GIDSS OLOAA … K
XVSQ R K
PBFJ R K
EGK6 R K
SVNX R K
MXV5 R K
ICFV R K
PJP6 R K

**4852 kHz, 21-02, 0740 UTC**
CQXJ AR

**4852 kHz, 21-02, 0852 UTC**
CQXJ de ICFV ZBO K
CQXJ QRV K
ICFV - R - 0900A - ZEU - GR 20 = ASFDA NOXUW … K
CQXJ R K
ICFV AR

**4852 kHz, 21-02, 0930 UTC, voice traffic**
Stations Drak-45, Honec-74, Vatra-50, Obora-83, Pohyb-82, Vzor-60, Zeta-58, Matan-35. Radio checks.
Flash messages: Iluze 934 Repas 389

**4852 kHz, 21-02, 0901 UTC**
HR3H de CQXJ 446 K
XVSQ R K
PBFJ R K
EGK6 R K
SVNX R K
MXV5 R K
ICFV R K
PJP6 R K

**4852 kHz, 21-02, 0932 UTC**
HR3H de CQXJ 446 K
XVSQ R K
PBFJ R K
EGK6 R K
SVNX R K
MXV5 R K
ICFV R K
PJP6 R K

| | |
|---|---|
| 3328 kHz, 28-02, 0632 UTC, CW | CQXJ wkg V7Z6 |
| 4852 kHz, 28-02, 0803 UTC, CW | CQXJ wkg XVSQ, PBFJ, EGK6, SVNX, MXV5, ICFV, PJP6 |
| 4852 kHz, 28-02, 0955 UTC, USB | OBORA-83 radio checks with Vera-71, Brak-45, Honec-74, Vatra-50, Rytec-79, Garaz-71 |

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## *M95*

**7553//9153 kHz, 01-02, 0941 UTC, i.p.**
3AN 353 37U 4T6 445 N3D 446
A HR MSG GA
NR 094 CK 114 35 0201 0713
N37 UT3 TTA 3U4 3A4 TT4 773 357 4UT 446 (Cont'd)
7G AGN
NR 094 CK 114 35 0201 0713
N37 UT3 TTA 3U4 3A4 TT4 773 (Cont'd repeat message)
ZNN SK

**7553//9153 kHz, 02-02, 1335 UTC, i.p.**
445 N3D 447 46D (Cont'd)
7G AGN
NR 099 CK 235 35 0202 1630
N37 UT3 TTU 3U6 TTU 773 3AD 353 N3D (Cont'd)
ZNN SK

**4364//8073 kHz, 09-02, 1140 UTC**
V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0138 CK 4A 35 0209 A528 =
TTU N5U TTN N53 TAD N54 7TT TT5 (Cont'd) AR
NR 0139 CK 220 35 0209 1600 =
U63AN3U7 TAU 773 TA7 773 TAD 773 353 4TU NN3 (Cont'd)

**4243//9054 kHz, 09-02, 1149 UTC**
446 467 3DU TUU TT3 773 447 (Cont'd) AR
7G AGN
NR 004 CK 22 35 0209 1521 =
5T. UTT TTN 3U6 (Cont'd) AR
A HR MSG GA
NR 18 CK 101 35 0209 1601 =
UTU TTN 3U6 3A4 7TU 7TA 7T7 73U 7UT TTU 773 N44 (Cont'd) AR
MSG AGN
NR 18 CK 101 35 0209 1601 =
UTU TTN 3U6 3A4 7TU 7TA 7T7 73U 7UT TTU 773 N44 (Cont'd) AR
HR 7G GA
NR 054 CK 16 35 0209 1621 =
UT5 TTN 3U6 3A4 TTA TTU TT3 773 35U DN7
353 4TA 447 46D 4D6 3D4 AR
7G AGN
NR 054 CK 16 35 0209 1621 =
353 4TA (Cont'd repeat message) AR
A HR UP SB WK

**4243//9054 kHz, 13-02, 1147 UTC**
V HR 7G TO YR PSE CY
NR 012 CK 19 35 0213 1558 =
5TD UTT TA3 3U6 3A4 35U 4TA N3D 4TN U7U
N4A 444 3DT TTU TT3 773 435 3DU 4D3 AR
7G AGN
NR 012 CK 19 35 0213 1558 =
5TD UTT TA3 3U6 3A4 35U 4TA N3D 4TN U7U
N4A 444 3DT TTU TT3 773 435 3DU 4D3 AR
A HR 7G GA
NR 26 CK 148 35 0213 1615 =
UTU AA3 .U6 3A4 TTU 773 35A N3D (Cont'd) AR
A HR 7G GA
NR 066 CK 18 35 0213 16A9 =
..T5 TA3 3U6 3A4 TTA TTU TT3 773 35T U4T
353 4TA 33U N3D 4T. 445 4D3 3DA AR
A HR UP SB WK

**4243 kHz, 13-02, 2347 UTC**
V A HR 7G TO YR PSE CY
NR 013 CK 19 35 0214 063. = AR
NR .. CK .. 35 0214 0... = (Cont'd) AR
A HR 7G GA
NR 06. CK 173 35 0214 .... =

**4364//8073 kHz, 13-02, 1141 UTC**
V BNGC (x3) DE XSV85
HR MSGS GA PSE CY
NR 0154 CK 319 35 0UA3 A557 =
TA3 3U6 (Cont'd) AR
NR 0155 CK 41 35 0UA3 A6TN =
TUT N5U TA3 N53 TAD N54 (Cont'd) AR

**5566 kHz, 14-02, 0959 UTC**
18/CCK CK 61 47 0214 1800 RMKS 3773 TO 2583 =
53TN A5N5 7A7A 53D3 TUNU 665A (Cont'd) AR K K K
R QSL 1.05 K (Other station also on this frequency but very weak)
HR WK NR 242 K
R SK K

**5566 kHz, 16-02, 1414 UTC**
QSA 3 QSA ? K K
7G TO U PSE .G
7G NAT 7G GA
NR 4089 CK 10 CR CW CLS 244 EEEEE
05 05
V 01 B01 CK K
7Z 0J6 D. 01 K
R R R 0M 1 NBBBB 0A2 Z QSA 2 2 I QSO ? K
BK K
K K K K K K I AS AS AS SK SK SK SK S BNDE BB BT BT BT NN/KKKK ? C ? ?
VO2 DE O0E K
R

**4243//9054 kHz, 19-02, 1150 UTC**
VVV HR 7G TO YR PSE CY
NR 024 CK 29 35 0219 1513 =
5TD UTT (Cont'd) AR
7G AGN
NR 024 CK 29 35 0219 1513 =
5TD UTT TAN 3U6 7TA N44 3A4 (Cont'd) AR
A HR 7G GA
NR 38 CK 211 35 0219 1610 =
UTU TAN (Cont'd)

**8073 kHz, 19-02, 1136 UTC**
V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0171 CK 214 35 0219 1551 =
TAD 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 (Cont'd)

**4364//8073 kHz, 20-02, 1136 UTC**
V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0173 CK 225 35 0220 1523 =
T.T 3U6 3U7 TAU 773 (Cont'd)

**4243//9054 kHz, 20-02, 1148 UTC**
V HR MSG TO YR PSE CY
NR 026 CK 35 35 0220 1521 =
5TD UTT TUT 3U6 7TA N44 3A4 353 4TA N3D
4T3 U7U N4A 447 3D3 N3D 445 3DA 33U N3D
444 3DA TTU TT3 773 44D 3D5 N3D 446 3D3
33U N3D 435 3DU 4D3 AR
A HR 7G GA
NR 087 CK 23 35 0220 1616 =
UT5 TUT 3U. 3A4 TTA  773 35U N3D 357
4TA 446 TT3 773 467 33U N3 445 4D6 3DU
N3D 3DA AR
A HR 7G GA
NR 40 CK 209 35 0220 162. =
UTU TUT 3U6 3A4 7TU 7TA 7T7 33A 336
73U 7UT TTU 773 357 34A N3U 477 4TA
34A N3D 4TN 446 336 N3U 445 4D6 34A (Cont'd) AR
A HR UP SB WK

**4364//8073 kHz, 21-02, 1138 UTC**
V BNGC (x3) DE XSV85 (x2)
A HR MSGS GA PSE CY
NR 0175 CK 39 35 0221 1523 =
TTU N5U TUA N53 TT6 N54 7TT (Cont'd) AR
MSG GA
NR 0176 CK 226 35 0221 1534 =
TUA ..6 3AN 3U7 TAU 773 (Cont'd)

**4243//9054 kHz, 21-02, 1148 UTC**
VV HR MSG TO YR PSE CY
NR 018 20 35 0221 1526
5TD UTT TUA 3U6 3A4 354 37D 4T7 N3D 4TA
U7U N4A 435 3DA TTU TT3 773 43D 3D3 4D3 AR
MSG AGN
NR 018 20 35 0221 1526 BT (Repeats message) AR
A HR MSG GA
NR 42 CK 133 35 0221 1557
UTU TUA 3U6 3A4 TTU N44 TT3 773 354 377 (Cont'd) AR
MSG AGN
NR 42 CK 133 35 0221 1557 BT (Repeats message) AR
A HR MSG GA
NR 090 CK 22 35 0221 1608 =
UT5 TUU 3U6 3A4 TTA TTU TT3 773 357 377 4AD
445 34A T3D 4TA 446 4D6 N3D 4D3 3DA N3D 3DU AR
MSG AGN
NR 090 CK 22 35 0221 1608 BT (Repeats message) AR
A HR UP SB WK AR

**4243//9054 kHz, 23-02, 1156 UTC, i.p.**
N3U 445 3UN 357 4TA 34A N3D … AR
7G AGN
NR 46 CK 154 35 0223 1500 =
UTU (Cont'd) AR AR
A HR 7G GA
NR 032 CK 25 35 0223 1518 =
5TD UTT TU3 3U6 3A4 35U 4A5 N3D 4AU U7U
N4A 446 3DA N3D 445 3DA TTU TT3 773 447
3D4 N3D 446 3D3 4D6 AR
7G AGN
NR 032 CK 25 35 0223 1518 = (Repeats message) AR
A HR 7G GA
NR 096 CK 13 35 0223 1541 =
UT5 TU3 3U6 3A4 TTA TTU TT3 773 35U 4A5
446 4D6 3DU AR
MSG AGN
NR 096 CK 13 35 0223 1541 BT (Repeats message) AR
A HR UP SB WK AR AR AR

**5120 kHz, 28-02, 1534 YTC, i.p.**
RMKS 0079 TO 2047 5023 0221 2376 0357 =
ANT4 345U DU7. (Cont'd) AR
7G NR 56/CCK CK 28 39 0228 2330 RMKS 0079 TO 2047 5013 .221 2376 0357 =
ANT4 445U DU7T 6.U4 U5NT 4745 UDN5 NUDN TUTU TTTT5 767A AU4A 3DT4 (Cont'd) AR
HR NR 1040 HR NR 1040 NIL SK NIL SK

The M95/V26/Q26 transmissions are likely naval navigational warnings and/or weather forecasts.. The format is the same as part of the M95 traffic. Here an example of a message sent by XSG, Shanghai Radio. Are the Chinese coastal stations sending this format to all ships or are they for the naval ships? XSV, Tianjin Radio is also sending these messages.

**12856 kHz, 25-02, 0728 UTC, XSG: Shanghai Radio, i.p.**
**Logged by JPL**
AR
NEXT = =
N/W NR 133 =
N/W XSG NR 133 CK 68/62 24 1507 = =
3ADA 53TT 6UU6 801230 U635 A55D 34N4 920170 ADUD 930 U5DD 910 U4DT 5U67 92017) ADUD (7) U5DD (30) U3.T TNBA TD57 4DTA AAUN UDNT (6) 57A4 ATU6 6UA AA5U 463T U63N T554 6T37 (30) 14 27N 120 =
16 BE 323, T644 7TN6 66TU T575 ATTD U5DN TTTD … 3 U6TA 6NUA AA5U 463T 4D5T TUTD =
U457 A56U TA5 … 6A53 T677 53TT 53T7 3A37 AN4U 66NN 6U45 AR
NEXT = =
N.W NR 132 =
N/W XSG NR 132 CK 65/49 24 1502 = =
3ADA 53TT 6UU6 (0122) U63N 3ADN (2) USDD (25) U4DT (0730) U5A4 5U67 (1130) U5A4 TN.A (30) 09AAA20N 122 =
08AAA.., (30) ... 67N 122 =
09AAA 13E, .0 =
08AAA10N 122 =
08AAA77E, T735 (30 =
09AAA00N 122 =
08AAA00E, (2000) N4D A367 AAUN TN66 TN76 UD7A 476U TN34 7DUT 6647 4D4D 54TT TN53 ...5 AAUN TNNU 53TN 7555 TTT7 3..5 A5D5 A4TA 6U45 AR
NEXT =
N/W NR 131 = =
N/W XSG NR 131 CK 47/38 24 1500 = =
3ADA 53TT 6UU6 (0121) U.3N 3ADN U3U7 7AAT (..2) .. (Cont'd)
AR
DE XSG VA

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## *UM03 - X2M*

X2M reports submitted by JPL. Reception was very poor most of the time. Any info about this station is most welcome.

**7920//8250//8410 kHz, 08-02, 0916 UTC, i.p.**
UN5T6 7U43N D5TUA 4U5A3 ... AR
17 17 CK 100 CK 100 TIME 1617 TIME 1617 DATE 0802 DATE 0802 =
NT6U4 3NT6U ... AR
19 19 CK 100 CK 100 TIME 1625 TIME 1625 DATE 0802 DATE 0802 =
73A4T 3A4TN ... AR
...JH
CQ (x3) DE X2M (x2) VVV (x 3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x 3)
MSG MSG ENG ENG
01 01 CK 100 CK 100 TIME 1630 TIME 1630 DATE 0802 DATE 0802 =
546UN 6UNT7 ... AR
03 03 CK 100 CK 100 TIME 1636 TIME 1636 DATE 0802 DATE 0802 =
..5A6 T6A7U 6U73N ... AR
05 05 CK 100 CK 100 TIME 1642 TIME 1642 DATE 0802 DATE 0802 =
T6734 73NT6 ...

**7920//8250//8410 kHz, 11-02, 0848 UTC, i.p.**
47 47 CK 100 CK 100 TIME 1... TIME 16.8 DATE 1102 DATE 1102 =
..644 ..... (Cont'd) AR
X2M i.p. 49 49 CK 100 CK 100 TIME 1655 TIME 165. DATE 1102 DATE 1102 =
7.37 ..374 AD... (Cont'd) AR
51 51 CK 100 CK 100 TIME 1600 TIME 1600 DATE 1102 DATE 1102 =
..U.. (Cont'd) AR
53 53 CK 100 CK 100 TIME 1605 TIME 1605 DATE 1102 DATE 1102 =
.U43N A73TD (Cont'd)

**7920//8250//8410 kHz, 13-02, 0913 UTC, i.p.**
CK100 TIME 1612 TIME 1612 DATE 1302 .... (mostly unreadable) AR
.. .. CK 100 CK 100 TIME 1628 TIME 1628 DATE 1302 DATE 1302 =
..6U5 3NT.. (Cont'd) AR
.. .. 100 CK 100 TIME 1623 TIME 1623 DATE 1302 DATE 1302 =
73A.T 4A4TN (Cont'd) AR

**7920//8250//8410 kHz, 14-02, 0916 UTC, i.p.**
A7U64 73D4N (Cont'd) AR
17 17 CK 100 CK 100 TIME 1.18 TIME 1618 DATE 1402 DATE 1402 =
..... .NT6U T6374 (Cont'd) AR
19 19 CK 100 CK 100 TIME 1624 TIME 1624 DATE 1402 DATE 1402 =
73A4T 3A4TN (Cont'd) AR
QOM15
CQ (x2) DE X2M (x2) VVV (x3) MSG MSG ENG ENG
CQ (x2) DE X2M (x2) VVV (x3) MSG MSG ENG ENG MSG ENG
01 01 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1402 DATE 1402 =
546UN 6UNT7 4TA75 6573A (Cont'd) AR
03 03 CK 100 CK 100 TIME 1638 TIME 1638 DATE 1402 DATE 1402 =
D45A6 T6A7U 6U7UN (Cont'd) AR
05 05 CK 100 CK 100 TIME 1644 TIME 1644 DATE 1402 DATE 1402 =
T6734 73NT6 5T3D7 (stops in the middle of the message)

**7920//8250//8410 kHz, 15-02, 0901 UTC, i.p.**
71 71 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1502 DATE 1502 =
6.U4T .ATUT (Cont'd) AR
73 73 CK 100 CK 100 TIME 1607 TIME 1607 DATE 1502 DATE 1502 =
TNUD. N5A3U (Cont'd) AR
75 75 CK 100 CK 100 TIME 1612 TIME 1612 DATE 1502 DATE 1502 =
UT... ..N.. (Cont'd) AR
77 77 CK 100 CK 100 TIME 1618 TIME 1618 DATE 1502 DATE 1502 =
T6U7. 3.... (Cont'd) AR
..... DATE 1502 DATE 1502 =
D54. 3T6A7 (Cont'd) AR
80 15
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
MSG ENG
61 61 CK 100 CK 100 TIME 1629 TIME 1629 DATE 1502 DATE 1502 =
.4.AN 3NT6. 73D4. (Cont'd- 0930z)
AR (0935z)
63 63 CK 100 CK 100 TIME 1635 TIME 1635 DATE 1502 DATE 1502 =
D...5 7D4UA (Cont'd) AR
65 65 CK 100 CK 100 TIME 1641 TIME 1641 DATE 1502 DATE 1502 =
..... 67... (Cont'd)

**7920//8250//8410 kHz, 16-02, 0931 UTC, i.p.**
CQ (x3) DE X2M (x2) VVV
MSG MSG ENG ENG
.. 99 CK 100 CK 100 TIME 1531 TIME 1531 DATE 1602 DATE 1602 =

Note: No transmissions found of Sunday 12 Feb 17, so possibly no Sunday sked.

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## *UM10 - 10-minutes net*

3115 kHz, 02-02, 1947 UTC: L6YC //3860 kHz
3207 kHz, 02-02, 1948 UTC: OBCD
3956 kHz, 06-02, 1555 UTC: Q7JN //3263 kHz
6859 kHz, 06-02, 0805 UTC: DIBE
3124 kHz, 06-02, 1305 UTC: DEJF
3263 kHz, 06-02, 1325 UTC: Q7JN //3956 kHz
3750 kHz, 08-02, 1335 UTC: DEJF //3124 kHz
3956 kHz, 08-02, 1355 UTC: Q7JN //3263 kHz
5948 kHz, 11-02, 0725 UTC: DIBE //6859 kHz
5765 kHz, 11-02, 0735 UTC: YJDN (new callsign and frequency)
3263 kHz, 15-02, 1800 UTC: Q7JN //3956 kHz
3124 kHz, 15-02, 1807 UTC: DEJF
3124 kHz, 19-02, 1435 UTC: DEJF
3263 kHz, 19-07, 1455 UTC: Q7JN
3124 kHz, 21-02, 1545 UTC: DEJF

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# *DIGITAL MODES*

## *HM02*

Modes:
FSK-19.8Bd/129Hz and FSK-CW

**4761 kHz, 01-02, 0520 UTC**
259 46 =
76653 27710 45881 07502 08580 24588 02774 05070 70621 21433
60805 30372 72230 50407 10047 61163 41236 70578 26224 30411
81615 27122 42310 48513 34372 37764 20068 24601 63238 12846
82257 02215 xxxxx 08525 46757 04868 54165 36627 85248 44070
68738 57652 383x8 75xxx xx489 25445
= 259 46 259 46 = repeats message = 259 46 000

**4761 kHz, 02-02, 0520 UTC**
Carrier only

**4761 kHz, 03-02, 0520 UTC**
971 43 =
83041 54648 23868 34688 16043 20048 57543 74068 81358 02164 45414 24708
65633 25685 22174 17744 54714 72508 23184 26008 80852 15450 32883 48256
36863 65345 81610 33655 15035 73380 25030 60543 61777 02288 23216 08426
83377 10585 51777 33142 40758 23307 48752
= 971 43 971 43 = repeats message = 971 43 000

**No transmission on 4 February.**

**4761 kHz, 05-02, 0520 UTC**
811 48 =
71656 33062 57627 75315 31586 86407 31386 78871 83744 35482
71800 23662 16837 03013 70465 65110 57785 12353 07211 77670
72358 68055 11363 34686 43368 61241 72773 88516 15868 74443
11088 42507 42351 03647 38454 66076 35813 02334 32210 72272
21648 76137 32767 05853 00655 58487 44382 03886
= 811 48 811 48 = repeats message = 811 48 000

**No transmission on 6 February.**

**4761 kHz, 07-02, 0518 UTC, FSK 200/129**
UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI

**4761 kHz, 07-02, 0520 UTC**
956 53 =
90047 83793 08293 12745 65019 06583 22604 93886 60952 24405
80632 63352 40984 23112 53286 32165 72956 85391 13242 54617
36137 41299 27020 21867 54020 19785 67391 27014 96463 44447
64452 73413 35944 61881 01369 12927 67069 41569 23638 74893
45442 63756 91868 09333 49606 58769 93689 09788 19320 14325
73967 43528 72524
= 956 53 956 53 = repeats message = 956 53 000

**No transmission on 8 February**

**4761 kHz, 09-02, 0520 UTC**
791 52 =
65036 32320 46523 20754 45626 26111 26545 70712 44240 21615
56741 62812 41385 12822 18400 48844 16614 86605 54148 73065
82732 11871 56557 00028 48252 44884 53182 53574 25462 26203
40313 64038 75242 61262 05336 02272 58542 47053 28738 68681
43720 14831 72433 68740 46755 37445 17745 17017 63683 63077
78206 77068
= 791 52 791 52 = repeats message = 791 52 000

**4761 kHz, 10-02, 0520 UTC**
238 48 =
12649 08179 48307 61973 62828 21299 41755 28935 00332 30668
78326 32934 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 75986 08862 78314 50613
= 238 48 238 48 = repeats message = 238 48 000

**4761 kHz, 11-02, 0520 UTC**
173 44 =
12649 08179 48307 61973 62828 21299 41755 28935 00332 30668
78326 32934 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868
= 173 44 173 44 = repeats message = 173 44 000

Note: The same message was sent on 10 Feb, with the exception that the last 4 groups were omitted today.

**No transmission on 12 February**

**4761 kHz, 13-02, 0520 UTC**
829 47 =
48703 74616 56486 34758 54238 78513 36506 32702 63138 52466
40086 57250 50568 74108 00574 04244 22081 20287 73843 64053
21372 84662 41468 67586 46308 35541 05242 72832 53707 20857
62477 85540 14183 03330 07580 67678 70674 62627 27780 16521
58525 65225 24805 45413 57720 01621 03618
= 829 47 829 47 = repeats message = 829 47 000

**4761 kHz, 14-02, 0520 UTC**
917 42 =
80278 32241 23181 35532 81625 14434 47387 11803 32803 54015
05620 61082 40165 44752 27507 34785 51263 44245 16137 04272
83831 38557 31204 72730 51310 00215 33540 65815 34371 46625
47881 50720 54287 60552 08467 76085 17431 32614 85576 71384
54377 43673
= 917 42 917 42 = repeats message = 917 42 000

**4761 kHz, 15-02, 0520 UTC**
459 47 =
60572 86064 55285 52669 73358 09517 47700 21789 42796 78623
08099 45735 93370 97433 04062 16056 03872 43921 73792 39558
94234 40920 76217 79233 79539 99052 07446 95047 77510 56820
60572 86064 55285 52669 73358 09517 47700 21789 42796 78623
08099 45735 93370 97433 04062 16056 56743
= 459 47 459 47 = repeats message = 459 47 000

**4761 kHz, 16-02, 0520 UTC**
357 43 =
89082 49912 46279 23088 75067 36193 06594 22381 76701 09058
16349 87185 51177 70095 16973 70600 51635 17643 54122 40231
65913 96161 89514 03073 91124 35577 79504 25456 14684 01497
43820 27073 11577 54874 23690 58742 87410 02658 96547 00258
48723 36971 55874
= 357 43 357 43 = repeats message = 357 43 000

**4761 kHz, 17-02, 0520 UTC**
928 44 =
42127 83415 16117 48760 88824 46430 57212 45140 11718 66855
20136 26221 13555 52521 65371 74827 07504 02878 23585 11267
08763 25406 72047 81317 21746 85628 22054 44638 12801 86784
53134 48125 17552 12843 18722 04438 08558 74165 88315 04518
08835 81456 54141 72255
= 928 44 928 44 = repeats message = 928 44 000

**4761 kHz, 18-02, 0520 UTC**
912 42 =
80278 32241 23181 35532 81625 14434 47387 11803 32803 54015
05620 61082 40165 44752 27507 34785 51263 44245 26137 04272
83831 38557 31204 72730 51310 00215 33540 65815 34371 46625
47881 50720 54287 60552 08467 76085 17431 32614 85576 71384
54377 43673
= 912 42 912 42 = repeats message = 912 42 000

**4761 kHz, 19-02, 0520 UTC**
242 44 =
80278 32241 23181 35532 81625 14434 44387 11803 32803 54015
05620 61082 40165 44752 27507 34785 51263 44245 16137 04272
83831 38557 31204 72730 51310 00215 35340 65815 34371 46625
47881 50720 54287 60552 00867 76085 17431 32614 85576 71384
54377 43673 23456 12876
= 242 44 242 44 = repeats message = 242 44 000

Note: Same message as 18 February but a different id

**4761 kHz, 20-02, 0520 UTC**
257 42 =
03400 32973 77141 88604 28903 38525 51718 29205 37282 99365
66523 02876 11810 65819 01967 34035 82417 79434 61239 37686
99428 85995 62498 75153 57102 53424 65934 91852 62259 84490
86504 88735 43011 81254 43776 73680 01152 39353 34380 66667
42792 15139
= 257 42 257 42 = repeats message = 257 42 000

**4761 kHz, 21-02, 0520 UTC**
965 47 =
77643 58643 84101 57111 30650 44625 48038 21337 62656 11825
73163 72546 28050 52037 33116 14687 68252 86451 17861 86812
27360 31677 66418 01725 33264 03320 35336 87807 00553 33705
84335 55532 42863 41175 33168 65062 54570 36304 00454 31010
18637 10767 26361 66705 82358 76788 57037 =
965 47 965 47 = repeats message = 965 47 000
Sends the FSK intro again, then off

**4761 kHz, 22-02, 0520 UTC**
671 43 =
80695 76781 74157 04277 13587 24639 23829 79191 34499 34856
58914 86003 60038 05696 92667 47496 06980 33427 98140 13624
99288 22136 52630 17654 06088 18694 48572 46986 86199 68227
93033 23892 56703 28812 88742 87536 95696 14070 27868 70306
90023 16668 32620 =
671 43 671 43 = repeats message = 671 43 000

**4761 kHz, 23-02, 0520 UTC**
649 49 =
05873 02306 76395 04960 78512 84364 41687 60031 87968 40511
95189 00168 06249 66684 30549 85329 01707 59502 47126 42118
39676 13079 27722 30285 43227 61651 10652 06416 41110 03191
73580 65955 27140 37918 61451 35906 79316 01289 91497 61937
39676 13079 27722 30285 43227 61651 10652 06416 41110
= 649 49 649 49 = repeats message = 649 49 000

**4761 kHz, 24-02, 0520 UTC**
873 44 =
80695 76781 74157 04277 13587 24639 23829 79191 34499 34856
58914 86003 60038 05696 92667 47496 06980 33427 98140 13624
99288 22136 52630 17654 06088 18695 48572 46986 86199 68227
93033 23892 56703 28812 88742 87536 95696 14070 27868 70306
90023 16668 32620 92667
= 873 44 873 44 = repeats message = 873 44 000

Note: Same message as 22 February with an extra group and different id.

**4761 kHz, 25-02, 0520 UTC**
417 50 =
33968 76862 34584 21299 95477 28596 76353 52411 91315 10316
09634 81752 73422 05418 55983 96284 21395 82393 60671 78381
04112 77552 47196 82203 79466 21050 78586 63149 05041 68999
12652 95898 83155 42899 52312 49322 72619 82679 89134 00971
40864 45459 66821 09138 26870 71327 72398 42464 80031 50866
= 417 50 417 50 = repeats message = 417 50 000

**4761 kHz, 26-02, 0520 UTC**
256 48 =
12649 08179 48307 61973 72828 21299 41755 28935 00332 30668
78326 32934 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53682 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 74986 08862 78314 50613
= 256 48 256 48 = repeats message = 256 48

Note: Same message as sent on 10 and 11 February. Different id. No 000 at the end

**4761 kHz, 27-02, 0520 UTC**
659 47 =
98808 88906 51456 41677 12282 94401 40094 53861 54434 81587
04137 66522 87000 94242 08637 26922 88849 72477 37419 52661
28048 80227 09762 18103 25496 63971 13570 75108 16423 44654
04137 66522 87000 94242 08637 26922 88849 72477 37419 52661
28048 80227 09762 18103 25496 63971 13570
= 659 47 659 47 = repeats message = 659 47 000

Note: Today's was made up of 30 unique groups, followed by groups 11 - 27
repeated to make up the 47 group message. Odd !

**4761 kHz, 28-02, 0520 UTC**
294 48 =
12649 08179 48307 61973 72828 21299 41755 28935 00332 30668
78326 32934 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53682 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 74986 08862 78314 50613
= 294 48 294 48 = repeats message = 294 48 000

Note: Repeat of the messages sent on 10, 11, and 26 February. Different id.

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## *F01, F06, M42, M42a, M42b & X06*

## *Russian Government & Intelligence*

*Modes:*
*Various digital modes, CW,*
*Tones (Мазелка / Mazielka)*

M42 – various modes

12164 kHz, 1-2, 1000 UTC, OFDM
15620 kHz. 1-2, 1011 UTC, CROWD-36

M42b – FSK 50/500

| | |
|---|---|
| 5112 kHz, 03-02, 0010 UTC, CW | 1PZF (3X) DE YN5W (2X) K. R 139 0015 K |
| 5371 kHz, 03-02,-0010 UTC, CW | 1PZF: R 400 0021 K |
| 5371 kHz, 03-02, 0013 UTC, FSK 50/500 | Unreadable |

**5112 kHz, 03-02, 0017 UTC, FSK 50/500** **YN5W sending**
400 100 03 0000 3456
32108 1643 56957 33768 54212 64263 08205 93961 65780 29711
46427 04697 41402 36200 14024 84746 83504 13708 25118 00864
81694 64446 36643 42097 78062 58120 68392 38728 55627 42909
01663 74274 92116 83104 11213 64003 46679351 10199 98380
/8802 92417 12793 74900 55388 76443 44159 66731 83558 32596 =50=
52491 01617 00993 19070 02769 49468 57218 58383 56964 42082
95963 67882 70340 73430 50341 04416 58563 53948 08052 59104
15298 17269 38799 63145 84981 02833 01088 90587 20455 62815
70616 69022 80154 66810 57434 34115 44531 02699 04052 88926
)6407 97153 81703 53956 14932 04210 26935 18845 77852 35330 =100=
0021

| | |
|---|---|
| 5112 kHz, 04-02, 0011 UTC, CW | 1S4W (3X) DE 1ZUX K |
| 5112 kHz, 05-02, 0011 UTC, CW | YKTU (3X) DE XAVYa |
| 5154.5 kHz, 05-02, 0004 UTC, CW | i.p. RPT = 722 194 9744 327 84161 3752 180 0603 AR |
| 5418 kHz, 05-02, 0052 UTC, CW | QHVA DE AJLW K |
| 5418 kHz, 05-02, 0054 UTC, CW | GTYA DE AJLW K |
| 5112 kHz, 06-02, 0011 UTC, CW | JPSYa DE LVHD K OP CHAT R 628 0021 K |
| 5371 kHz, 06-02, 0011 UTC, CW | LVHD (3X) DE JPAYa (2X) K + Op chat |

**5112 kHz, 06-02, 0011 UTC, FSK 50/500**
RYRYRYRYRYRYRYRYRYRYRYRYRYRY
030 100 06 0000 3412
28349 93746 18936 10285 17382 93651 01926 16283 17283 17293
29401 37645 14284 02747 18394 10274 18203 18294 10283 28104
19473 02503 14269 01928 54628 91204 14628 93018 28391 65744
19284 12839 46279 12465 92384 19284 45567 71092 47529 19204
19384 18405 47283 13739 03827 19284 14880 02280 29384 74912 =50=
19473 14880 29382 18902 46742 2736 91264 17289 03490 00288
19283 64772 23347 72889 35472 76235 81938 46378 64783 22837

91887 66334 27562 78231 05874 37481 92839 02981 36478 27391
39481 36478 46320 14880 98273 04652 37481 08374 28371 63819
28471 28372 46152 90528 47160 48210 87238 92730 47891 02834 =100=
0014

**5371 kHz, 06-02, 0015 UTC, FSK 50/500. JPSYa tries to send a message but fails.**
RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY
628 100 06 0000 4811
26069 68086 75446 05539 15049 67430
26069 68086 75446 05539 15049 67430
Failed to send the message but the receiving station sends “CFM”

| | |
|---|---|
| 5112 kHz, 07-02, 0011 UTC, CW | R 135 0030 K |
| 5371 kHz, 07-02, 0011 UTC, CW | PNYa7 (3X) DE PA41 (2X) K. R 134 67EEEE R 180 67074EEEE R 180 0021 K |

**5112 kHz, 07-02, 0012 UTC, FSK 50/500**
180 110 07 0000 6707
98994 42574 15381 07487 81149 37679 47938 59317 92453 75023
92706 63323 56261 22375 27984 25127 53244 80945 21369 59306
82580 92717 58092 49443 98637 80610 42402 61434 10449 88934
44519 21904 14676 03077 60714 71586 12165 00620 15793 52659
54955 64812 52481 08382 61831 38396 47052 71652 82740 06135 =50=
31634 96548 10536 90757 23017 01436 17892 41195 92665 45712
53574 49703 63243 48450 16294 03177 34001 75147 60386 62720
75817 53061 70700 97723 78606 28012 28732 48574 86668 77569
13773 51375 50353 71358 93769 55631 76565 01641 11176 66811
80756 83356 54221 72458 59288 86687 87054 83720 57799 08344 =100=
42562 56915 81288 67469 61831 93920 58424 69171 66406 38574
0021

**5371 kHz, 07-02, 0024 UTC, FSK 50/500**
135 100 07 0000 4574 (uncopiable)

| | |
|---|---|
| 5776 kHz, 07-02, 0940 UTC, CW | 9ZNJ wkg NVR8 QSA NO QSY 76208 |
| 5112 kHz, 08-02, 0011 UTC, CW | GD14 (3X) DE O9FS (2X) K OP CHAT R 391 0017 K |
| 5371 kHz, 08-02, 0011 UTC, CW | O9FS (3X) DE GD14 (2X) K OP CHAT R 040 0014 K |

**5112 kHz, 08-02, 0012 UTC, FSK 50/500**
040 125 08 0000 3451
53257 21876 02449 06401 06893 19741 91736 47944 54898 81643
75084 59645 95869 43859 30412 41536 90310 96150 85663 70855
80824 08751 36467 66383 66043 63540 32136 73740 00746 43401
08902 46721 75508 27312 31228 09179 27939 38602 97760 78721
17350 18925 06499 34914 10307 39731 94942 95207 72533 68780 =50=
#9242 10313 52966 37157 04977 43611 84308 72005 35751 38064
78885 84865 04956 02002 56023 37143 73184 68874 49854 65678
02427 96422 80510 10807 26621 08785 70013 72914 31485 60542
48800 92182 85288 75089 51012 58222 66148 33262 65713 88187
03027 28562 92106 96242 62753 33442 34736 48694 19921 53797 =100=
25091 54498 82468 32614 02394 67868 78499 77436 42110 94455
87837 40646 44605 57213 18729 91338 02505 45701 37517 39750
28890 98321 35595 33206 44317
0014

**5371 kHz, 08-02, 0015 UTC, FSK 50/500**
391 100 08 0000 9311 (mostly garbled)

| | |
|---|---|
| 5112 kHz, 09-02, 0011 UTC, CW | L7Y2 (3X) DE DMSYa (2X) K |
| 5371 kHz, 09-02, 0011 UTC, CW | R 099 0014 K |

**5112 kHz, 09-02, 0012 UTC, FSK 50/500**
099 100 09 0000 4567
49797 51378 09521 32733 23861 60919 15094 9682  65347 47140
48334 61554 66967 56430 02538 50566 73408 08153 51140 11857
85160 91249 01443 25132 60696 80867 54460 55391 50496 74309
66045 82868 53401 77808 97839 72502 48062 65663 41713 08290
10816 78821 38935 41227 79140 47876 80861 45259 38843 50593 =50=
46253 20009 80967 21448 49844 19680 93638 95017 19826 75939
97973 50419 41436 42276 08511 "0644 75382 73537 48001 64583
12295 54631 20651 94468 10812 98868 20249 81564 68635 74240
27201 619&9 96942 02368 92867 35359 59799 05210 20636 94840
84482 42779 93984 08059 09182 87684 89837 07196 30148 66661 =100=
0015

5371 kHz, 09-02, 0017 UTC, FSK 50/500, uncopyable

**5376 kHz, 09-02, 2355 UTC, CW**
..YuYuD UIYuWB CDBUYu ZEGNH YaPPWI 381 K
LGTX (3X) DE XPLO (2X)
R 675? K
ZH1X (3X) DE XPLO (2X) K

5112 kHz, 10-02, 0011 UTC, CW  S3HP (3X) DE 3YaTV (2X) K. R 121 0018 K
5371 kHz, 10-02, 0011 UTC, CW  3YaTV (3X) DE S3HP (2X) K. OK 320 0014 K

**5112 kHz, 10-02, 0011 UTC, FSK 50/500**
320 100 10 0000 6723
32108 16643 56957 33768 54212 64263 08209 93961 65780 29711
46427 04697 41402 36200 14024 84746 83504 13708 25118 00864
81694 64446 36643 42097 78062 58120 68392 38728 55627 42909
01663 74274 92116 83104 11213 64003 46261 59351 10199 98380
68802 92417 12793 74900 55388 76443 44159 66731 83558 32596 =50=
52491 01617 00993 19070 02769 49468 57218 58383 56964 42082
95963 67882 70340 73430 50341 04416 58563 53948 08052 59104
15298 17269 38799 63145 84981 02833 01088 90587 20455 62815
70616 69022 80154 66810 57434 34115 44531 02699 04052 88926
56407 97153 81703 53956 14932 04210 26935 18845 77852 35330 =100=
0013

5371 kHz, 10-02, 0016 UTC, FSK 50/500  121 100 10 0000 5621 (mostly garbled)
5112 kHz, 11-02, 0010 UTC, CW  EN5B (3X) DE 2C5I (2X) K. R 131 0017 K
5371 kHz, 11-02, 0011 UTC, CW  2C5I (3X) DE EN5B (2X) K. R 234 0013 K

**5112 kHz, 11-02, 0011 UTC, FSK 50/500**
234 100 11 0000 5678
03231 72600 96387 18684 65357 91610 96901 66449 19968 85851
19180 02633 71567 37597 14599 59193 31667 24486 80516 43691
16502 99355 03158 72485 09017 57663 38496 93873 67855 53447
35804 24605 03702 49762 33572 48220 64692 14521 82474 48631
98110 97687 75075 77409 80528 50751 86962 78186 33598 74426 =50=
58989 16631 67671 05513 75321 89428 20446 78849 16972 10698
82806 25310 95508 99292 29074 91765 96628 15416 93828 93959
88284 19986 62502 38230 73039 55199 67932 73018 89362 69722
10059 56098 91526 36942 40946 48464 62809 39727 82341 70825
41683 20129 67918 83622 65686 17465 27433 76528 62644 43208 =100=
0014

**5371 kHz, 12-02, 0014 UTC, FSK 50/500**
131 200 11 0000 3223, mostly garbled

5112 kHz, 12-02, 0010, CW B5T9 (3X) DE KJ78 (2X) K. R 131 0017 K
5371 kHz, 12-02, 0011, CW KJ78 (3X) DE B5T9 (2X) K. R 456 EEEEE 456 0014 K

**5112 kHz, 12-02, 0011 UTC, FSK 50/500**
456 100 12 0000 7890
32108 16643 56957 33768 54212 64263 08209 93961 65780 29711
46427 04697 41402 36200 14024 84746 83504 13708 25118 00864
81694 64446 36643 42097 78062 58120 68392 38728 55627 42909
01663 74274 92116 83104 11213 64003 46261 59351 10199 98380
68802 .2417 12793 74900 55388 76443 44159 66731 83558 32596 ;50;
52491 01617 00993 19070 02769 49468 57218 58383 56964 42082
95963 67882 70340 73430 50341 04416 58563 53948 08052 59104
15298 17269 38799 63145 84981 02833 01088 90587 20455 62815
70616 69022 80154 66810 57434 34115 44531 02699 04052 88926
)9640 87153 81703 53956 14932 04210 26935 18845 77852 35330 ;100;
0013

**5371 kHz, 12-02, 0015 UTC, FSK 50/500**
131 100 12 0000 4565
19650 56133 .7197 87722 49182 85969 48825 07211 70430 23996
15545 02019 98970 69800 17153 39620 23708 3226. ....5 49629
75902 23205 45027 08934 46189 82056 14104 54975 44266 97482
04022 92617 23155 71060 72499 10878 28422 74435 46073 65483
55616 74672 69201 49703 54152 63911 28889 67444 82303 76466 =50=
71109 57240 66067 95659 15265 75312 01333 48292 45043 96861
07745 41184 38583 13134 58972 47055 27411 95425 85566 87192
56264 72377 89422 53816 50316 99521 97725 39866 54828401
06137 95867 95777 20807 78350 47980 20855 56052 05072 71484
35290 43953 98373 84010 21540 94332 79718 95101 60999 49440 =100=

5112 kHz, 13-02, 0010 UTC, CW M47L (3x) DE DZNG (2X). R 130 0017 K
5371 kHz, 13-02, 0010 UTC, CW M47L (3X) DE DZNG (2X) K. R 730 0014 K

**5112 kHz, 13-02, 0011 UTC, FSK 50/500**
730 115 13 0000 6712
21398 25631 92831 56213 03945 02913 90564 87231 56231 09546
78435 09534 09543 78543 89354 09354 78543 20943 87534 23784
05694 54378 60945 37821 57096 30495 56790 24837 56049 76213
05946 28934 23409 72613 65409 23478 05964 67342 09564 76234
67059 95843 76543 09342 09654 76423 06954 76432 95604 65432 =50-
65489 78543 56049 67213 45609 57843 09564 76234 09564 76342
09564 76342 76509 07956 87)43 09756 76324 09567 23156 0694
98564 09564 98654 54378 34789 32980 21546 53267 54378 21564
32567 34768 21879 43789 21789 43567 52416 32768 21098 32178
21678 23678 54637 32198 43567 42673 21809 32890 21768 23675 =100=
32768 21789 43879 54768 1BRE RTYEU WEUQY REIUO TYQWR ROEIP
WQTYU EUQWY WEOQI REUIO WQUIO
0014

5371 kHz, 13-02, 0015 UTC, FSK 50/500 130 100 13 0000 3443, mostly garbled
5112 kHz, 14-02, 0010 UTC, CW D2CL (3X) DE JH37 (2X) K
5371 kHz, 14-02, 0010 UTC, CW JH37 (3X) DE D2CL (2X) K. R 712 0014 K

**5112 kHz, 14-02, 0011 UTC, FSK 50/500**
712 100 14 0005 3321
19650 56133 71497 87722 49182 85969 48825 07211 70430 23996
15545 02019 98970 69800 17153 39620 23808 32263 17125 49629
75902 23205 45027 08934 46189 82056 14104 54975 44266 97482
04022 92617 23155 71060 72499 10878 28422 74435 46073 65483
55616 74672 69201 49703 54152 63911 28889 67444 82303 76466 =50=
71109 57240 66067 95659 15265 75312 01333 48292 45043 96861
07745 41184 38583 13134 58972 47055 27411 95425 85566 87192
56264 72377 89422 53816 50316 99521 97725 39866 54828 09401
06137 95867 95777 20807 78350 47980 20855 56052 05072 71484
35290 43953 98373 84010 21540 94332 79718 95101 60999 49440 =100=
-0013

**5371 kHz, 14-02, 0015 UTC, FSK 50/500**
132 100 14 0000 5692
99617 14025 80169 70513 29996 06430 54145 85199 67905 97668
10929854627 67171 86807 86696 1 596 /1755 63025 98238 61661
34096 82642 30507 28023 54307)18874 22121 72636 08870 89984
26878 59836 47159 44200 00817 19909 34731 78253 12129 26469
69940 95107 23328 71619 12146 07365 22439 64674 62996 78752 =50=
67471 180/4205 87046 60062 65241 42010 34040 62;&&190
06202 49995 03704 94890 08225#62181 30772 14113 63866 35237
26568 02232 48238 57288 77353 90816 55221 25658 89934 70110
18753 06618 28543 96851 85290 76007 32707 13376 39695 98175
38077 34655 58939 66415 07668 16825 37355 18176 82477 33377 =100=
-0017

| | |
|---|---|
| 9126 kHz, 14-02, 0622 UTC, CW | M8TK wkg IK7R (Message sent in FSK 50/500) |
| 4765 kHz, 14-02, 1446 UTC, CW | OBRA wkg WVXZ (Message sent in FSK 50/500) |
| 3222 kHz, 14-02, 2045 UTC, CW | HLKV wkg OCZE. NO QSY 61527 |
| 5893 kHz, 15-02, 0648 UTC, CW | ZE4A wkg EBCW |
| 3041 kHz, 15-02, 1900 UTC, CW | BNIZ wkg F5SA |
| 4461 kHz, 18-02, 0553 UTC, CW | PZAK wkg PLXW |
| 4026 kHz, 20-02, 0552 UTC, CW | PLXW wkg PZAK |

**6856 kHz, 19-02, 1257 UTC, CW**
WL9P wkg IMTA, followed by a message in FSK 50/500
RYRYRYRYRYRYRYRYRYRYRYRYRRRYRYRYRYRYRYRYRYRYRYRRRYRYRYRYRYRRRYRYRYRYRYR
085 100 19 1230 4628 =
28349 93746 1856 10285 17 53+1 01926 16283 172319
94#-375 14284 02747 18394 10274 18203 182.28/09473 02583 14269
01928 54628 91204 14628 93018 28391 65744 19284 12839 46279
12465 92384 19284 455' 7192 49284 19384 18405 47283 13739 03827
19284 14880 02280 29384 74912 =50=
19473 GQEY OQJ QUWIWEROP PPWIISRQGWIE YRUUW WEERU UWIIO
ETRUW UYWE IQOEI RYEUI YRUIE WWIEU OQIIU YYEER WUTYW UIWEQ
PTIUR EURIQ OWIEO PWOIQ EYRUI WUEOQ EORIQ EYRUI RYEWP QRIIP
OIWUE PRYTW EURIQ PIEUR WIEUQ YEIQO WIRUQ WIEUW RYQTW OPTWI
RUQYP RIWQP IUWEI OWUEP RUIOQ PWIER VQPPV
1304

| | |
|---|---|
| 4856 kHz, 20-02, 0617 UTC,CW | MAST wkg IABY |
| 3254 kHz, 20-02, 0630 UTC, CW | UW9M wkg L47K |
| 4012 kHz, 20-02, 0719 UTC, CW | VGTR wkg NLAT |
| 3261 kHz, 21-02, 1745 UTC, FSK 50/500 | RYRYRYRYRYRYRYRYR 294 180 21 1700 3765 = |
| 4011 kHz, 22-02, 0721 UTC, CW | G3WM wkg SK8 |
| 4012 kHz, 22-02, 0722 UTC, CW | VGTR wkg NLAT |

**18401 kHz, 03-02, 2240 UTC**
Link ID 00116, Date 3rd, Serial #5, Groups 179
11177 00116 62834 03005 01799
34601 00561 31240 40851 53881 88442 56105 32589 50309 62691
04990 50648 36040 04761 63548 90274 97146 69202 00519 50014
75641 87545 55848 16100 10199 65630 96108 83279 58994 91581
23130 41740 53121 96618 46802 84846 54004 35889 57964 17360
13256 81497 62338 68835 58416 44941 61426 41883 53000 71120
91327 49981 04309 71122 55396 24521 17425 85955 11686 95785
18837 98437 01118 77538 98136 35413 27308 09912 41217 27479
23998 40285 53404 18438 71005 46837 95979 41628 44667 34464
84514 05344 13677 57746 22453 54524 16281 50656 68397 00898
79747 67685 60510 38772 68074 66094 46492 88657 68840 83955
92559 35905 55169 93687 69862 56557 83712 35765 41776 47591
14625 62291 00563 03743 64429 45124 26644 08101 27746 28234
69259 28659 28797 28997 71602 38011 88636 18090 89093 98382
19044 32698 74132 79172 79005 02701 25802 99213 54745 94541
27950 10916 49217 02453 24083 68504 92008 41739 02514 47514
05601 23795 90210 07752 88899 17548 78759 16895 04004 27017
30908 76929 77122 39671 41098 20600 49596 25272 48457 70074
39951 89902 25653 74996 02924 14848 92073 05177 00000

**10421/8016/6812 kHz, 04-02, 1240/1250/1300 UTC**
Serial #6, Groups 273
06817 21105 82236 41837 62013 61086 09070 45315 99308 13785
37172 76344 44448 76458 70475 17843 03304 09889 45002 85441
06646 05985 85596 04896 65944 10549 38533 68892 26146 30916
28449 15435 26367 83137 13025 95000 04420 58408 33852 18656
06139 13417 86939 04315 85423 14305 61283 63327 05935 88938
18931 94592 80405 67153 15005 78373 08467 13689 81085 87009
98961 83479 20428 54712 87661 53993 88416 73624 86335 14315
56727 08344 24097 15656 84604 46084 66979 12967 45713 24679
26673 52366 83990 05589 94352 84042 96944 84133 60547 05343
69820 54101 06980 63721 09098 68958 81315 74235 48732 66808
90757 31283 27586 51328 75434 19268 61500 45831 47502 51874
58421 62676 06911 94642 50032 55187 69763 50536 38336 44283
70221 13184 80603 37001 21870 17480 61148 79106 49501 42241
23353 08964 27242 44603 60381 04873 83968 30834 88027 43045
61941 93270 48126 08412 39605 68050 15970 25455 54477 93333
10164 01242 87085 72698 28364 97854 91861 73403 57328 76404
85958 14200 30725 79813 31911 22378 33128 46553 75077 64745
73644 72527 21808 82212 77608 63288 69275 82684 69778 43772
22897 71941 47474 17742 62298 27183 67093 94119 41746 42955
92449 22413 35987 04113 78355 04396 67447 65524 87903 74258
75701 43206 66875 64393 15175 46568 23712 99022 92002 06454
88497 82832 75986 78681 49375 76826 48584 27750 89846 78568
72879 20410 75386 49004 96449 83793 62813 53059 23096 07769
30849 06188 14344 96234 55304 44071 06679 97018 77341 57643
55431 65077 38228 60639 41271 38690 79039 81854 00226 33322
28739 99284 63178 82855 29076 58364 15772 82867 69732 41466
14666 15653 32166 80855 21072 61660 65581 32299 37518 27058
43466 51491 58768 06273 00000

**15803/12195 kHz, 13-02,  0030/0040 UTC**

11177 00117 28674 13007 01799
32215 33828 58086 93374 37139 64202 95746 49123 18138 92451
00133 00022 24798 54786 00643 75810 93026 43867 08198 16485
01597 06289 50272 81779 79889 80520 24373 00158 00047 53142
01300 48220 24584 08425 42757 52286 60091 26948 28278 67709
45422 39657 43944 06022 84311 19000 25769 19876 51148 57669
14367 69760 90766 87766 53769 72640 75401 28015 20716 49535
11007 08164 14986 22523 27390 15069 79289 98936 36044 96641
98049 05501 60288 49834 49175 76242 55052 97768 12032 87463
80497 97513 78095 21327 33238 61609 19150 94968 24653 47471
40483 34615 54669 67564 30025 38505 66734 08081 53511 40118
57851 60912 49014 43251 32606 96808 67544 60553 91504 96743
09660 45828 68534 01778 08978 39725 02480 62656 63417 13082
90108 16788 21389 35412 27791 40478 76808 61452 59388 43505
93462 53200 09809 67214 48498 44196 80936 38950 17198 26759
39979 73504 19414 36422 76185 11306 44753 82735 37480 01645
83122 95546 31206 51944 68108 12988 68202 49815 64686 35742
40272 01619 49969 42023 68928 67353 59597 99052 10206 36948
40844 82427 79939 84080 59091 82876 84898 07177 00000

**15803/12195 kHz, 20-02, 0027/0038/0125/0135 UTC**

11177 00117 47193 17008 01359
60923 18741 63855 01264 85625 26913 31526 94460 74379 00226
90355 87170 60413 02960 93543 64319 10945 62591 77411 91387
49313 87938 84008 68238 50592 68528 36787 26629 70372 35178
94164 35487 33501 45707 89939 46455 56062 69929 65538 67360
26930 87652 40068 54946 83236 22470 49654 64251 61377 12108
90134 85822 06361 05742 00339 04334 24538 11315 81339 75449
67210 13776 39104 11864 34770 74530 72993 02799 52083 59656
30207 47301 67578 89078 03103 67322 15338 28580 86933 74371
39642 02957 46491 23181 38924 51001 33000 22247 98547 86006
43758 10930 26438 67081 98164 85015 97062 89502 72817 79798
89805 20243 73001 58000 47531 42013 00482 20245 84084 25427
57522 86600 91269 48282 78677 09454 22396 57439 44060 22843
11190 00257 69198 76511 48576 69143 67697 60907 66877 66537
69726 40754 01280 08133 00000

**20741/18401 kHz, 24-02, 2230/2240 UTC**

11177 00116 16358 24008 01569
76430 30925 40594 69224 77548 12893 68021 05110 85064 62586
28472 40629 90813 11034 03919 69338 05664 00462 67569 87282
99602 76132 15991 49107 58704 80429 61042 22055 29028 38040
91962 54499 36050 29435 17431 46942 26412 88928 88683 83338
04768 90687 90333 73265 26587 96041 04870 86247 93928 30178
91549 25749 94593 57081 99782 53490 20196 21207 31190 56774
06474 85826 06646 28960 70101 37726 45202 90994 51037 88604
67609 75978 53383 79378 74190 98858 43713 80979 93243 71220
21751 74171 11704 08516 62196 48081 02297 56463 79749 17060
85394 15415 54983 85222 70346 36334 43972 58902 47657 13338
51087 63508 04113 59341 50835 65990 76376 15065 08122 69104
27403 28037 00349 27425 24438 60892 23183 42245 17571 69813
33798 67048 48168 52199 60649 90893 14896 77371 22150 90401
37411 30321 75654 22172 41657 85927 36479 72216 30215 65003
46602 58950 60837 82105 85507 38230 77769 11908 98803 70692
17797 62715 88456 56848 08154 00000

**15803/12195 kHz, 27-02, 0027/0038/0125/0135 UTC**
11177 00117 71495 24009 01489
82887 60491 22246 02398 68697 26889 88168 04844 29645 54705
76435 37328 30866 97193 71235 70260 73718 47689 63969 75605
27663 24360 43637 49429 38245 43224 74161 68704 96951 60222
27361 00723 10748 01873 47134 42464 98425 72744 05600 40320
86992 35481 07249 92366 77469 60995 17308 54394 62386 27076
74312 47558 07737 79320 78207 14611 28871 01079 07693 36498
46997 80143 59438 55283 18270 52611 78867 74900 27162 04822
33272 45416 80488 35247 47565 76970 32380 52515 11589 33678
62510 00828 87015 08071 51339 48236 09070 20004 08119 93991
26479 32875 60469 68968 59870 78587 80528 57257 91739 69987
73652 84064 96659 62887 57022 91381 37614 92018 63420 59449
19934 12572 60141 53577 33207 47681 89372 70647 02916 38285
92034 77165 54681 05189 18109 73912 62665 05431 98776 87325
43575 65958 33199 61714 02580 16970 51329 99606 43054 14585
19967 90597 66818 92954 62767 17186 09146 00000

F06 – FSK 200/1000

Link 16404 / 16405

**12116/10275/8176 kHz, 07-02, 1500/1510/1520 UTC**
Null message on link 16405

**20916/18730/16165 kHz, 08-02/09-02, 0900/0910/0920 UTC**
Block No 0 : Total Message Size 25 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,30,00,00,00,11,00,00,00,00,0c,20,08,00,00,00,00,c0,00,40,00,10,02,f0,07,70,0a,80,00
Block No 1 : Link ID 16404 : 7th of month : Msg Number 025 : Msg Type 07145 : Group Count (?) 162
53088 19171 21504 33584 59836 02489 33792 18931

**12116/10275/8176 kHz, 14-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 20 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,20,00,60,00,10,00,00,00,00,09,20,00,00,07,00,09,90,02,a0,07,90,05,20,01,40,0a,70,05
Block No 1 : Link ID 16404 : 14th of month : Msg Number 050 : Msg Type 07145 : Group Count (?) 119
32768 11849 58093 02069 51160 02783 20957 11233

**12116/10275/8176 kHz, 21-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 16404 : 21st of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 4
07680 00000 00000 01537 59836 36797 00893 62600

**20916/18730/16165 kHz, 23-02, 0900/0910/0920 UTC**
Block No 0 : Total Message Size 13 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,10,00,80,00,10,00,00,00,00,0e,20,03,00,04,00,06,10,03,d0,08,d0,0b,d0,01,70,02,e0,0e
Block No 1 : Link ID 16404 : 22nd of month : Msg Number 027 : Msg Type 07145 : Group Count (?) 74
44404 21571 15354 34239 59836 33945 22323 29470

**12116/10275/8176 kHz, 28-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 16404 : 28th of month : Msg Number 225 : Msg Type 07145 : Group Count (?) 4
05925 00000 00000 02647 55396 01545 00893 26867

Link 20492

**20639/17539/15644 kHz, 08-02, 1015/1025/1035 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20492 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
36716 00000 00000 00421 34753 36028 00893 33764

**20639/17539/15644 kHz, 22-02, 1015/1025/1035 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20492 : 22nd of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4
42884 00000 00000 00120 28441 03346 00893 62068

Link 20501

**10383/9046/7313 kHz, 01-02, 1650/1700/1710 UTC**
Block No 0 : Total Message Size 18 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,20,00,20,00,10,00,00,00,00,00,20,0b,00,0c,00,0b,d0,0e,00,0f,30,0f,c0,0e,60,0a,50,00
Block No 1 : Link ID 20501 : 30th of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 104
03949 18680 23843 13216 21447 00355 54653 39475

Link ID 20501, Date 30th, Serial #64, Groups 104
1be9501550f6d2ca0068e
3d48 f838 82e3 9029 1e87 ada1 4ded bdf9 c6d2 571e
ac7e 393c 0ee8 53d1 d287 8b4d 7053 4c86 63b6 912b
dbd5 abc6 1fc4 6e8c b39c 5a27 eb9e 6bf8 7adc 1f9b
51a7 19d5 337c f212 b833 b7c9 3577 d5a6 7d54 c383
7fa8 f65c 6d1b d98a 0528 644a d8d6 023a 0818 1054
52e9 cde5 a5e6 a25b b9b4 3d2c 5de2 b93e 7c1d 2be8
e31b 6a36 207d fd50 e36c 6579 1252 e743 9607 c020
26e2 26d9 b249 f889 cbdb 6986 d404 4a76 7625 a0a2
d26d 00e5 98a8 fec1 2bb6 463c 7d31 2ee3 f36e 1929
031d 7546 4c39 54ea 3e61 333b eb16 df29 ab93 7fea
9853 8681 0500 0000

**13464/11548/9323 kHz, 05-02, 1530/1540/1550 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 5th of month : Msg Number 150 : Msg Type 07145 : Group Count (?) 4
58804 00000 00000 04091 12857 03317 00893 00419

**13374/11165/9219 kHz, 07-02, 1650/1700/1710 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,08,c0,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 7th of month : Msg Number 162 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 03272 12857 34240 00893 08685

**13464/11548/9323 kHz, 12-02, 1530/1540/1550 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 12th of month : Msg Number 150 : Msg Type 07145 : Group Count (?) 4
58804 00000 00000 01996 12857 03241 00893 11869

**13374/11165/9219 kHz, 14-02, 1650/1700/1710 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
75,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,00,0b,40,06,70,02,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 14th of month : Msg Number 162 : Msg Type 07145 : Group Count (?) 4
34932 00000 00000 01573 12857 33741 00893 60650

**13464/11548/9323 kHz, 19-02, 1530/1540/1550 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 03891 12857 36329 00893 60803

**13374/11165/9219 kHz, 21-02, 1650/1700/1710 UTC**
Block No 0 : Total Message Size 1 blocks : This transmission contains 0 messages.
7d,12,b0,e6,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,01,00,00,00,00,00,00,00,00,02
Block No 1 : Link ID 20501 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
51652 00000 00000 02138 21447 33411 00893 10579

**13464/11548/9323 kHz, 26-02, 1530/1540/1550 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 26th of month : Msg Number 152 : Msg Type 07145 : Group Count (?) 4
53445 00000 00000 03692 12857 33450 00893 25582

**13374/11165/9219 kHz, 28-02, 1650/1700/1710 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 28th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
62941 00000 00000 03822 12857 36493 00893 52296

Link 32816/32817

**20072/18291/16071 kHz, 01-02/02-02, 0600/0610/0620 UTC**
Block No 0 : Total Message Size 69 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,80,00,80,00,10,00,00,00,00,03,20,0d,00,09,00,02,e0,02,90,05,30,07,70,0f,40,0e,60,0a
Block No 1 : Link ID 32817 : 28th of month : Msg Number 010 : Msg Type 07145 : Group Count (?) 213
34381 31060 33944 38602 11596 06893 61001 41083

**20072/18291/16071 kHz, 08-02/09-02, 0600/0610/0620 UTC**
Block No 0 : Total Message Size 80 blocks : This transmission contains 2 messages.
3d,12,b0,e6,00,00,05,00,98,00,e0,00,20,00,00,00,00,0a,20,0f,00,0a,00,0f,2c,05,2c,06,5f,05,10,0b,c2,02,3e,0b
Block No 1 : Link ID 32816 : 4th of month : Msg Number 012 : Msg Type 07145 : Group Count (?) 46
07548 57625 35128 31722 59615 38512 11079 50840

**20072/18291/16071 kHz, 15-02, 0600/0610/0620 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32816 : 15th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 4
25344 00000 00000 03542 62441 01997 00893 54247

**20072/18291/16071 kHz, 22-02/23-02, 0600/0610/0620 UTC**
Block No 0 : Total Message Size 47 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,50,00,c0,00,10,00,00,00,00,05,20,00,00,09,00,06,e0,04,70,06,a0,08,c0,0d,20,0e,70,0a
Block No 1 : Link ID 32817 : 18th of month : Msg Number 017 : Msg Type 07145 : Group Count (?) 63
08600 59080 58192 28338 00500 39372 11917 31834

Link 32821

**22878/20216/18253 kHz, 04-02, 1500/1510/1520 UTC**
Block No 1 : Link ID 32821 : 4th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 00026 13740 36459 00893 49917

**22878/20216/18253 kHz, 11-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32821 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
03948 00000 00000 02207 22795 36230 00893 46558

**22878/20216/18253 kHz, 18-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 1 blocks : This transmission contains 0 messages.
7d,12,b0,e6,00,00,00,00,00,00,00,00,00,84,52,00,20,00,8f,28,96,9f,41,b2,80,d7,61,d4,21,d8,80,13,11,02,91
Block No 1 : Link ID 32821 : 18th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4
41348 00000 00000 03831 13740 02772 00893 53120

**22878/20216/18253 kHz, 25-02/26-02, 1500/1510/1520 UTC**
Block No 0 : Total Message Size 29 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,30,00,80,00,10,00,00,00,00,0f,20,07,00,07,00,07,b0,0a,a0,01,50,06,b0,07,c0,05,10,02
Block No 1 : Link ID 32821 : 22nd of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 192
43024 43928 57819 40336 31945 03898 46939 32456

Link 36882

**18911/16234/14426 kHz, 04-02/05-02, 1100/1110/1120 UTC**
Block No 0 : Total Message Size 12 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,10,00,60,00,10,00,00,00,00,00,20,0a,00,05,00,08,b0,01,f0,06,10,0f,80,09,b0,06,40,03
Block No 1 : Link ID 36882 : 3rd of month : Msg Number 205 : Msg Type 07145 : Group Count (?) 68
07756 44121 11033 37823 43092 00381 13229 05628

Link ID 36882, Date 3rd, Serial #82, Groups 68
1be99012a1e4c1ecd044e
93ac 5990 8835 01ef 46d3 5768 e97a 85ca 0a01 067c
1a39 0388 86ae bf7a 1f23 7272 f610 8201 55bf 8edc
1d3c df15 eaba 4aea 4342 dc90 29a1 a206 2c7a 2da6
7dd6 8557 4531 2841 2c84 f89a a5db be6b 2b7a 4ef1
caaa e10c 6de9 1430 a0aa f0b5 4232 9009 c89b 1738
fe91 ab90 0e5e 48cd 9f24 1780 27c6 01b8 c5e1 72fc
a8d3 559a 2430 d4ea 50cb 9788 4200 0000

**18911/16234/14426 kHz, 11-02/12-02, 1100/1110/1120 UTC**
Block No 0 : Total Message Size 58 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,70,00,20,00,10,00,00,00,00,0a,20,0d,00,0b,00,09,a0,0a,c0,00,c0,01,20,08,90,06,f0,03
Block No 1 : Link ID 36882 : 10th of month : Msg Number 207 : Msg Type 07145 : Group Count (?) 136
00676 30457 14238 37663 43092 40794 07547 34396

**18911/16234/14426 kHz, 18-02/19-02, 1100/1110/1120 UTC**
Block No 0 : Total Message Size 38 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,40,00,a0,00,10,00,00,00,00,00,20,08,00,0e,00,0d,30,0f,e0,04,e0,07,60,0c,e0,05,90,06
Block No 1 : Link ID 36882 : 17th of month : Msg Number 210 : Msg Type 07145 : Group Count (?) 246
20820 46361 15351 37975 31234 03103 41676 37519

**18911/16234/14426 kHz, 25-02/26-02, 1100/1110/1120 UTC**
Block No 0 : Total Message Size 67 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,80,00,40,00,10,00,00,00,00,09,20,09,00,05,00,05,50,05,80,00,00,08,f0,06,90,0a,d0,0c
Block No 1 : Link ID 36882 : 22nd of month : Msg Number 212 : Msg Type 07145 : Group Count (?) 198
32476 48761 15351 37230 34728 37324 42365 40377

Link 40988

**9234/7819/5361 kHz, 07-02, 2300/2310/2320 UTC**
Null message on link 40988

**9234/7819/5361 kHz, 14-02, 2300/2310/2320 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 40988 : 14th of month : Msg Number 180 : Msg Type 07145 : Group Count (?) 4
37148 00000 00000 01363 06549 01282 00893 33739

Link 41018

**16321 kHz, 02-02, 0150 UTC**
Block No 1 : Link ID 41018 : 2nd of month : Msg Number 063 : Msg Type 07145 : Group Count (?) 245
32768 37793 45759 15503 04819 49360 32491 59874

Link 45057

**20894/18429/16153 kHz, 11-02/12-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 34 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,40,00,20,00,10,00,00,00,00,03,20,07,00,09,00,08,50,0c,a0,00,d0,0f,e0,06,20,0f,40,0b
Block No 1 : Link ID 45057 : 10th of month : Msg Number 230 : Msg Type 07145 : Group Count (?) 217
57856 30761 31077 04830 46156 03554 20622 06130

**20894/18429/16153 kHz, 25-02/26-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 34 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,40,00,20,00,10,00,00,00,00,03,20,07,00,09,00,08,50,0c,a0,00,d0,0f,e0,06,20,0f,40,0b
Block No 1 : Link ID 45057 : 10th of month : Msg Number 230 : Msg Type 07145 : Group Count (?) 217
57856 30761 31077 04830 46156 03554 20622 06130

Link 45075

**19654/17461/15869 kHz, 01-02, 0800/0810/0820 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 1st of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4
51464 00000 00000 04030 09055 02794 00893 34436

**19654/17461/15869 kHz, 08-02, 0800/0810/0820 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
54632 00000 00000 00588 14597 34190 00893 49197

**19654/17461/15869 kHz, 15-02, 0800/0810/0820 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 15th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 4
57196 00000 00000 02214 09055 01610 00893 28879

**19654/17461/15869 kHz, 22-02, 0800/0810/0820 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 22nd of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 4
18468 00000 00000 03256 19299 36130 00893 55756

Link 45079

**5126 kHz, 06-02, 0520 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45079 : 6th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 4
45464 00000 00000 00149 53317 00534 00893 31447

**7328/6778/5126 kHz, 20-02, 0500/0510/0520 UTC**
Link ID 45079, Null message

Link 45114 / 45115

**15638/13486/11128 kHz, 11-02/12-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 35 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,40,00,40,00,10,00,00,00,00,0e,20,01,00,0f,00,03,10,0d,40,02,30,00,00,0a,a0,0f,80,0a
Block No 1 : Link ID 45114 : 10th of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 228
52404 64660 25271 27908 65008 34862 22272 55095

**15638/13486/11128 kHz, 25-02/26-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 19 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,20,00,40,00,10,00,00,00,00,0d,20,0d,00,0a,00,00,e0,0b,20,09,d0,0b,50,02,c0,05,00,09
Block No 1 : Link ID 45114 : 22nd of month : Msg Number 125 : Msg Type 07145 : Group Count (?) 116
53916 50580 26718 27342 57479 00507 34791 18754

Link 49202

**19984/17489/15621 kHz, 01-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
50628 00000 00000 04006 34046 35428 00893 48313

**19984/17489/15621 kHz, 08-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 00376 28271 34520 00893 03745

**19984/17489/15621 kHz, 15-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 03574 28271 33267 00893 65309

**19984/17489/15621 kHz, 22-02, 1000/1010/1020 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e4,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 22nd of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
37676 00000 00000 02808 28271 01431 00893 18537

Link 49237

**12194 kHz, 02-02, 1340 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 2nd of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 4
04752 00000 00000 00140 64398 34013 00861 07090

**14983/12196 kHz, 09-02, 1330/1340 UTC**
Null message 49237

**14983/12196/9917 kHz, 09-02, 1330/1340/1350 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 16th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4
62700 00000 00000 03088 54891 03293 00893 11554

**14983/12196/9917 kHz, 23-02/24-02, 1330/1340/1350 UTC**
Block No 0 : Total Message Size 21 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,20,00,80,00,10,00,00,00,00,07,20,09,00,06,00,07,50,09,70,0f,80,02,60,08,50,0c,f0,00
Block No 1 : Link ID 49237 : 22nd of month : Msg Number 067 : Msg Type 07145 : Group Count (?) 130
63524 55543 29978 16990 49619 35656 27016 57760

Link 53277

**18235/16144/14519 kHz, 01-02, 1230/1240/1250 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
60860 00000 00000 03186 19866 36817 00893 31522

**18235/16144/14519 kHz, 15-02, 1230/1240/1250 UTC**
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 03137 15966 33887 00893 05339

X06 - Mazielka

| Freq | Date | UTC | Day | Sequence |
|---|---|---|---|---|
| 12215 | 3-2 | 1004 | Fri | Mazielka. Sequence: 361245 |
| 16223 | 9-2 | 1003 | Thu | Mazielka. Sequence: 164532 |
| 7961 | 9-2 | 1537 | Thu | Mazielka i.p. Sequence: 263145 |
| 12213 | 10-2 | 1101 | Fri | Mazielka. Sequence: 615243 |
| 16115 | 15-2 | 1134 | Wed | Mazielka. Sequence: 215346 |
| 18197 | 16-2 | 0935 | Thu | Mazielka. Sequence: 645321 |
| 15983 | 15-2 | 0725 | Wed | Mazielka. Sequence 1--6-- before XPA2 |
| 15983 | 15-2 | 0728 | Wed | Mazielka. Sequence 1--6-- before XPA2 |
| 8157 | 28-2 | 0801 | Tue | Mazielka. Sequence: 6--1-- |

## *XPA*

Mode: MFSK-20/10Bd

**11409/13509/14609 kHz, 01-02/04-02, 0700/0720/0740 UTC**
456 456 456 1 456 456 456 1 456 456 456 1
05436 00189 06714 63567 87845 00614 23789 60168 84871 74662
69640 21391 35315 22324 17662 33078 81777 79297 40990 02635
76180 05504 06051 83294 45987 46922 16619 27145 57918 69506
61700 27421 02321 57258 47563 90287 65450 47798 55941 77901
39100 05860 14445 03725 19740 98488 50408 34394 59696 37819
15299 64794 44308 36623 88411 07633 44451 57460 51095 30866
18949 83509 74286 22579 40800 72303 05812 64043 27207 83179
21982 18579 72890 03280 07631 12241 30560 00818 81868 72446
12838 44720 51410 09161 36851 92951 25869 05272 91612 11419
57684 28593 98694 54996 38619 19567 32876 69915 46391 75101
24130 56226 42347 15089 51913 45944 25850 52658 57603 60284
17842 97622 53857 71696 92757 44264 37022 52521 03475 73601
46356 39885 42317 93496 13206 80313 32181 14637 88176 80869
66761 45928 37405 45305 35587 50812 61810 61852 14850 77650
38958 93373 30837 81716 10135 34553 39272 42386 43202 70731
48767 43665 65661 10389 83065 74830 15065 89031 23515 69107
27685 54741 54837 23930 13136 13337 90286 36260 62450 87539
14729 10742 15887 53983 18796 21573 31665 64784 73581 83265
00517 72998 53157 76050 53965 80906 51156 71762 16208 53955
89714 13477

**11409/13509/14609 kHz, 08-02/11-02, 0700/0720/0740 UTC**
456 456 456 1 456 456 456 1 456 456 456 1
00588 00107 37616 56016 05519 48172 21564 65255 63298 55137
88656 61783 68392 59709 77449 83530 14062 49600 33551 66946
51490 73362 24416 34073 39072 81589 65757 38940 56339 13380
76851 31641 03597 46710 25056 62804 61887 07791 09121 36223
99680 03352 19979 02559 22304 47126 12332 68269 22362 27205
15833 35768 95739 57019 47102 84827 83788 97401 34643 56681
22536 07385 05450 86513 42935 52888 38060 69458 12372 59274
13645 73663 77922 64899 70751 21812 52120 38369 45252 54831
17777 86053 46135 88259 77961 08978 63672 13038 91660 45219
21115 16229 62650 44386 03994 23049 21083 99010 81151 54198
05531 33142 67550 03169 54732 21774 50973 94560 11603 00352

**11409/13509/14609 kHz, 15-02, 0700/0720/0740 UTC**
456 456 456 000
03658 00001 00000 10140

**11409/13509/14609 kHz, 18-02, 0700/0720/0740 UTC**
456 456 456 000
02337 00001 00000 10140

**11409/13509/14609 kHz, 22-02/25-02, 0700/0720/0740 UTC**
456 456 456 1 456 456 456 1 456 456 456 1
09502 00163 30577 25892 14604 86647 64188 15407 00176 10002
61757 81001 11546 60011 46246 50466 68718 37118 91262 42494
60660 91398 97728 61083 45086 43572 83517 22559 04775 80633
14967 74717 12790 85121 55981 16145 35959 40409 79161 51419
64190 45931 93553 22285 05289 01736 43496 33672 30642 82138
26824 75426 79608 97738 60378 88125 98220 19761 68731 51390
82509 30677 95642 18313 91809 58906 95941 95413 46178 54681
69034 10562 05212 73492 28098 52226 91718 34779 17569 69069
96054 12948 57288 29826 86530 41692 63191 26380 80216 18159
53913 07547 35326 16056 00945 58004 27303 43870 61089 49314
89574 40268 40128 03155 57649 49617 67622 90238 08193 63730
87235 01227 88912 28885 50812 85344 34582 62256 20716 19786
92408 88859 21295 66250 24728 54136 37053 15066 45183 48360
14327 90957 10573 95741 14754 34521 35924 11327 61430 36934
22172 42924 45651 57845 48678 59642 05041 23709 08754 36362
42196 92032 09140 84026 59289 06730 03329 08646 51982 40190
98277 83350 56048 00963 72879 52243

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## *XPA2*

Mode: MFSK-16/20Bd

**15983/14783/13883 kHz, 01-02, 0800/0820/0840 UTC**
03568 00163 57863 19976 58694 88961 46114 59207 64476 10470
87557 89640 30808 21579 82416 80541 79323 12826 50018 45763
32994 02315 37246 56917 80659 70265 18618 50833 99301 22113
61474 38358 75467 66988 21355 63140 68224 96685 51446 98757
22018 17512 27632 40289 31543 39383 07517 31365 58578 33363
05948 86545 94339 68609 70221 37676 11361 51497 77892 26730
71871 25548 50085 86125 57258 96027 71535 05333 90806 29356
67468 49511 24966 14444 00577 77363 63302 31274 49688 11782
37745 97549 26507 90215 06410 13637 37569 61475 63676 35544
94295 65211 63707 55595 50781 28420 06688 08826 43948 79036
99665 34898 80693 41895 52636 77940 56473 59996 10345 64710
02948 05439 46536 62833 42836 48539 06811 69072 10015 08781
39187 79488 87090 45968 21983 40671 73120 08900 44071 32043
03183 26866 95696 81068 43656 21400 30759 45165 98106 29576
21109 76443 19612 19287 97747 65873 46358 19765 37427 42394
56650 96956 54230 92346 83706 27894 11101 04222 17688 21560
07360 83028 53642 64196 30881 61251

**14558/15948/17458 kHz, 03-02, 0700/0720/0740 UTC**
09482 00001 00000 10140

**18667/17419/16212 kHz, 03-02/04-02, 1400/1420/1440 UTC**
06952 00067 43229 24167 96570 14608 80337 77150 79320 46751
70588 15608 06836 20614 18163 90752 77728 43238 45139 62696
57039 35074 59431 38324 53760 99198 89946 26699 17757 87458
04608 87196 23806 51878 55570 90795 86789 24361 40733 06373
02234 03762 14342 79909 52118 85389 82076 40307 98862 92814
99027 41799 18733 61332 98509 16821 14874 80229 03162 89723
34263 81802 28810 42868 80748 04561 85852 52926 14499 16223

**16338/14538/13538 kHz, 05-02, 1500/1520/1540 UTC**
04544 00001 00000 10140

**15983/14783/13883 kHz, 06-02, 0800/0820/0840 UTC**
08635 00001 00000 10140

**14558/15948/17458 kHz, 07-02/10-02, 0700/0720/0740 UTC**
05275 00075 36355 33693 65675 02838 28185 23752 23831 10878
88025 41311 53486 98391 94484 65305 89076 60503 22214 87696
05052 01607 81212 89862 07774 04386 70745 53212 05594 40315
80220 69103 48767 69016 06553 03916 82259 56378 17120 81577
75258 93489 20194 50182 72769 23677 13965 71026 09632 24252
35337 05300 60379 26500 30434 94819 36315 75543 39667 87809
29735 94206 67479 59107 48475 27798 32326 05117 37244 63335
40192 09746 35508 59201 00715 22389 00590 62210

**16338/14538/13538 kHz, 07-02, 1500/1520/1540 UTC**
01239 00001 00000 10140

**15983/14783/13883 kHz, 08-02, 0800/0820/0840 UTC**
09949 00001 00000 10140

**18667/17419/16212 kHz, 10-02/11-02, 1400/1420/1440 UTC**
04286 00083 98792 01166 12946 35577 27323 20886 49307 18854
13721 22987 40059 09608 91738 82624 19239 78679 04525 66584
78224 73246 12431 92400 43677 94545 13808 37455 45990 41253
16416 37084 90821 99925 44876 92016 49867 80905 23108 26093
46599 02898 02538 61555 70377 63114 27449 75343 11538 44246
48614 42109 57471 17516 70320 01830 77319 06881 77693 66811
40649 52834 00994 33054 56733 66300 85183 04442 01666 74679
83448 95786 45268 60077 48918 71318 77792 81230 65884 14094
22416 51893 05682 38281 57233 61622

**16338/14538/13538 kHz, 12-02/14-02, 1500/1520/1540 UTC**
05197 00093 49856 86770 26703 24955 75264 93522 18991 54585
15533 39611 74957 37988 72799 32639 65627 24256 52290 80212
46634 12281 27324 98007 19793 09519 00859 98659 43093 42176
89535 05376 12470 50212 10349 86150 60443 43874 93083 48355
97229 34507 22338 31486 44049 06798 62798 11182 98370 21768
79966 41286 16543 32183 82771 56398 71906 69890 33473 65173
98402 41337 42069 68208 72142 01722 92569 34722 04983 85187
93806 36658 55594 12410 40177 13904 54046 25079 80667 33575
90845 41082 63546 06053 94891 92662 33950 07695 15266 52332
29586 68786 73790 33185 32437 36652

**15983/14783/13883 kHz, 13-02, 0800/0820/0840 UTC**
08723 00001 00000 10140

**14558/15948/17458 kHz, 14-02/17-02, 0700/0720/0740 UTC**
00220 00165 97034 47947 43080 30202 19564 22124 65498 62192
53806 44950 25288 87018 10550 18298 80104 04640 14367 39036
32694 13298 30506 10250 43672 05699 55665 66463 23535 21130
93342 96546 42109 80404 39559 44583 54625 96095 25908 92185
96077 12787 44973 43516 17869 29399 61032 80235 99991 95802
37811 30668 03697 32046 51515 26936 32144 03707 31012 84777
78101 67634 77788 73122 11635 65686 34327 86911 36578 02951
81750 87544 94108 23556 42752 98322 86953 05644 54646 43657
12807 69343 43066 88087 21367 77788 61650 26199 18057 99073
19869 69147 12837 19447 02744 49649 20908 89675 29192 43272
01930 51811 04872 58626 88000 01530 70129 96877 76585 33134
26340 78728 03944 11233 03856 41847 79332 12775 70392 10103
36806 35197 52850 97610 11443 88413 99931 23405 87657 55229
10257 82602 03286 82848 98473 81344 44510 50726 30417 92385
41822 81410 12281 08479 75940 18896 03076 36622 99348 09246
26879 38793 55519 39310 18702 74215 51175 83268 15579 97823
63927 74846 70638 51039 57377 27047 47811 00257

**15983/14783/13883 kHz, 15-02, 0800/0820/0840 UTC**
03989 00001 00000 10140

**18667/17419/16212 kHz, 17-02, 1400/1420/1440 UTC**
02292 00001 00000 10140

**18667/17419/16212 kHz, 18-02, 1400/1420/1440 UTC**
09033 00001 00000 10140

**16338/14538/13538 kHz, 19-02, 1500/1520/1540 UTC**
07374 00001 00000 10140

**15983/14783/13883 kHz, 20-02, 0800/0820/0840 UTC**
09519 00001 00000 10140

**14558/15948/17458 kHz, 21-02, 0700/0720/0740 UTC**
02597 00001 00000 10140

**16338/14538/13538 kHz, 21-02, 1500/1520/1540 UTC**
09909 00001 00000 10140

**15983/14783/13883 kHz, 22-02, 0800/0820/0840 UTC**
05407 00001 00000 10140

**14558/15948/17458 kHz, 24-02, 0700/0720/0740 UTC**
04273 00001 00000 10140

**18667/17419/16212 kHz, 24-02/25-02, 1400/1420/1440 UTC**
02411 00115 48543 60671 64604 73085 76170 93550 32683 06112
63327 29448 80440 07766 00630 51455 44277 16234 48709 49634
63888 43283 7266 330569 67965 55433 60089 06724 22223 78029
16431 42142 10855 88856 09166 00522 84639 69915 58889 41745
56242 51119 54857 07500 55248 03732 80448 95266 55488 07047
66446 33013 56601 33115 41044 28603 01891 28347 02476 60736
71929 78996 75687 13763 17476 96174 17455 98273 88263 67070
63102 45234 75191 84338 24632 77578 99692 53856 96264 12313
40592 05980 72849 65321 53820 42140 21425 65370 27392 99278
67108 67542 59286 05731 90572 43936 89484 41819 13956 69354
07558 59052 21918 16907 72869 41707 98859 62989 66503 58173
24323 75346 63905 03617 32932 86231 98409 04763

**16338/14538/13538 kHz, 26-02, 1500/1520/1540 UTC**
03397 00001 00000 10140

**15983/14783/13883 kHz, 27-02, 0800/0820/0840 UTC**
08624 00149 94771 05505 15850 18695 48682 90333 60951 39289
96919 81830 76809 93287 55540 52152 15940 78785 67739 49441
17883 11046 52748 71643 73908 32813 02031 41327 21390 76250
95660 04481 60633 73358 96637 39035 81319 09073 54948 06097
58023 38576 70830 32072 78660 02641 47022 66525 18227 78669
52903 77352 83966 83645 17685 77745 07330 67264 03369 37605
99397 25000 88944 40950 20491 95113 12786 89419 15640 98153
83448 27607 50679 09227 05272 85385 69509 80842 98639 30375
10030 96058 95899 66025 22994 23070 82076 66978 14231 55121
28801 97471 90084 71344 77613 01628 29358 00430 49167 23113
90412 99025 44624 59463 41607 80463 70790 08697 56367 17687
55492 44852 65932 85068 16502 17127 70732 62425 60453 24209
39567 99787 02235 10858 89014 14073 92808 39207 96652 70730
16111 22420 87732 96162 53197 18320 77625 71721 94232 99075
12096 33140 70990 29087 24599 96020 88476 32180 67201 84114
53433 06047

**14558/15948/17458 kHz, 28-02, 0700/0720/0740 UTC**
08257 00001 00000 10140

**16338/14538/13538 kHz, 28-02, 1500/1520/1540 UTC**
01893 00001 00000 10140

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## *F11*

Mode: FSK 100/620

**16125 kHz, 01-02, 0530/0535 UTC**
0453 0453 0453 0453 0453
88888 88888 14521 66706 06230 77228 74286 60394 20528 93047
82893 57324 23570 65583 29125 32627 09213 30670 65385 53350
73437 86655 84206 99539 76733 14947 83747 49057 50448 68201
93421 10353 80533 36323 83800 04832 69940 76042 55341 88888
88888
00041 00041

**6940 kHz, 06-02, 0515/0525 UTC**
0446 0446 0446 0446 0446
88888 88888 06908 36523 77303 72005 74507 26367 58611 92233
89544 09316 54796 71429 51134 88992 09941 53961 97172 70893
21420 35955 34587 95283 60259 26373 98395 91550 73378 87436
95846 87250 37408 63540 15373 88888 88888
00037 00037

**9443 kHz, 07-02/10-02, 0655/0700 UTC**
0684 0684 0684 0684 0684
88888 88888 33830 95858 42066 37830 86216 92592 32033 92698
87121 91467 89803 49509 87452 45842 65246 57398 07964 72021
42267 96682 64514 28735 56605 81295 35602 07345 56282 61806
50519 16536 33512 95957 78795 57109 26907 22213 43122 88888
88888
00041 00041

**7499 kHz, 07-02/10-02, 0900/0905 UTC**
0554 0554 0554 0554 0554
88888 88888 88235 71251 86611 91971 74522 29369 98282 67141
53228 09465 23347 31803 17146 27156 20039 48709 88721 38834
51928 77870 28922 37852 65187 87693 03668 66063 83907 74880
81235 86585 75317 91638 98015 93342 35021 76020 88888 88888
00040 00040

**6836 kHz, 13-02, 0800/0805 UTC**
0434 0434 0434 0434 0434
88888 88888 88441 91012 04902 83173 56876 29768 34024 83498
71793 36794 80483 88574 63229 28825 93951 33265 65493 54324
71213 66349 20096 59843 02788 46758 71057 12479 04525 59975
18459 38914 58473 01387 88888 88888
00036 00036

**9370 kHz, 13-02/15-02, 0845/0850 UTC**
0353 0353 0353 0353 0353
88888 88888 84988 71932 89108 40174 38040 92268 62613 52288
88120 17540 08533 72958 06111 50134 97265 40927 55122 79552
37730 78248 77264 03440 65089 22187 09226 89520 60012 55788
25397 50404 03421 20867 35658 95977 54932 35563 02174 88888
88888
00041 00041

**7772 kHz, 14-02/16-02, 0630/0635 UTC**
0574 0574 0574 0574 0574
88888 88888 47701 65464 27649 06539 25170 95053 97963 62216
22601 46225 83806 20848 66813 88190 55110 26568 64383 54043
93886 86006 83608 20506 99459 60458 27400 00976 10860 43171
56254 12773 25002 70927 75399 51112 61130 35412 92255 96429
30791 88888 88888 00043 00043

**17531 kHz, 14-02/15-02, 1245/1250 UTC**
0132 0132 0132 0132 0132
88888 88888 94096 18561 12761 32356 27493 31680 14948 15298
96615 60473 88645 74317 60248 43690 21669 40266 60930 53993
19749 87550 91288 54598 78916 73372 00881 58163 70542 51726
98355 25812 14557 07246 01668 89296 03515 88888 88888
00039 00039

**6836 kHz, 16-02, 0800/0805 UTC**
0434 0434 0434 0434 0434
88888 88888 88441 91012 04902 83173 56876 29768 34024 83498
71793 36794 80483 88574 63229 28825 93951 33265 65493 54324
71213 66349 20096 59843 02788 46758 71057 12479 04525 59975
18459 38914 58473 01387 88888 88888
00036 00036

**16388 kHz, 21-02/23-02, 0730/0735 UTC**
0433 0433 0433 0433 0433
88888 88888 99198 86380 64080 83973 41426 95304 05341 41607
77528 51362 69911 83084 81740 34512 59781 47010 28042 08012
49332 44521 60371 38254 56785 05855 59460 23901 94981 28949
95281 38971 81993 21004 69477 31031 88888 88888
00038 00038

**7863 kHz, 21-02/22-02, 1150/1155 UTC**
0325 0325 0325 0325 0325
88888 88888 16156 08917 24473 22065 45789 17482 44449 00827
74430 51833 82810 05636 23892 98187 21510 97478 72468 49518
67103 00860 20558 63336 87992 50972 89841 52741 31690 34014
89050 03148 30217 28023 52327 14817 78197 88888 88888
00039 00039

**7499 kHz, 28-02, 0900/0905 UTC**
**Nothing heard at 0900 UTC, very strong at 0905 UTC.**
0554 0554 0554 0554 0554
88888 88888 88235 71251 86611 91971 74522 29369 98282 67141
53228 09465 23347 31803 17146 27156 20139 48709 88721 38834
51928 77870 28922 37852 65187 87693 03668 66063 83907 74880
81235 86585 75317 91638 98015 93342 35021 76020 88888 88888
00040 00040

**S11a, 7504 kHz, 28-02, 0915 UTC: 482/00**

Normally F11 sends 2x and S11a carries the same message as F11 but not now.
I heard F11 only once with a message and S11a was a null message

## *Q26 - Chinese military*

Mode: 4+4 QPSK 75/3000 LSB

**4433 kHz, 12-02, 2306 UTC, i.p.**
XKGN XDFN XKGN DE ZWVN ZWVN ZWVN QSA ? ///
JCPRMKKQR KFOQJNJJIYYXYXY
XKGN XXFN XKGN DE ZWVN ZWVN ZWVN QSA ? ///
?AJPBFWEMKFSQHJWEYXEPAXYXYXYXYXYXY
XKGN XWFN XKGN DE ZWVN ZWVN ZWVN QSA ? ///
TLPJMOYWKQPQ!$RWKXYXYXYXYXYXY
XKGN X DE ZWVN ZWVN ZWVN QSA ? ///

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## *Egyptian diplomatic stations*

*Modes: SITOR-A 100/170 & Codan-9001*

**16056.7 kHz, 05-02, 1330 UTC, SITOR-A 100/170**
MFA Cairo clg KKXB Egyptian embassy Kinshasa

**9046.7 kHz, 12-02, SITOR-A 100/170**
1412 UTC clg OOVC Egyptian embassy New Delhi, then KSR KDKOJKD CFUWXDZ MLKY RKS LKCDYGS KGH+??(((
followed CODAN data
1417 UTC clg OOVC, then KSR KDKOJKD CFUWXDZ MLKY RKS LKCDYGS KGH+??((( into CODAN data
1430 UTC clg OOVC, then HFKY+? followed by CODAN data
1447 UTC clg OOVC

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## ***UTILITY ROUND-UP***

### *HAARP - High-Frequency Active Auroral Research Program*

Picture: Michael Kleiman, US Air Force

HAARP was active again. Copied by quite a few dxers. Below Token's report:

On 20 and 21 February about 40 minutes of the transmission was attempting to induce and observe the Luxembourg effect. On 22 Feb no Luxembourg test was transmitted. On 23 Feb about 20 minutes of transmission was dedicated to the Luxembourg effect. Outside those time slots the transmissions were doing other things, and no music or frequency specific audio was transmitted.

Here is a video of my reception of the second set (of two sets that night) sent on the 23rd of February. This is in the O mode, the first set was in the X mode and over 10 dB weaker. Each set was about 9 minutes and 30 seconds long. A 30 second pause between each resulted in a transmission every 10 minutes.

https://www.youtube.com/watch?v=uQThVcaQvOc&t=79s

Token
Mojave Desert, California, USA

Further a report from Nils who heard the station on the 23rd.
2700 kHz: starting 0331 UTC with weak carrier until 0340 UTC stronger carrier from 0341 UTC to 0350 UTC then a series of 2 x 12 transmissions started with a weak carrier for 90 seconds, followed by a pause of 30 seconds, after which a stronger carrier set in for the next 90 seconds. This pattern was repeated eleven times again after 330 seconds each.

3300 kHz: starting at 0331 UTC with a weak carrier until 0340. Stronger carrier from 0341 UTC to 0350 UTC. Nothing heard thereafter until recording ended at 0600 UTC

Strongest signals - much to my surprise - on 2700 kHz instead of 3300 kHz. No modulation heard on either channel (too weak). For two screenshots of the reception see: https://dk8ok.org/2017/02/23/play-it-again-haarp/

73 Nils

HAARP homepage: https://sites.google.com/alaska.edu/gakonahaarpoon/home

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**7890 kHz, 15-02, 1202 UTC, USB:**
Unid Polish stations i.p. Possibly cadets or boy scouts

| | |
|---|---|
| Gargulec-69 przygotujcie się do odbioru wiadomości | Gargulec-69 ready to receive messages |
| Gargulec-91 tu Gargulec-69 podaję wiadomość<br>102 80 602 13 04 | Gargulec-91 here Gargulec-69 I give a message<br>102 80 602 13 04 |
| Gargulec-91 tu Gargulec-69 przygotujcie się do odbioru wiadomości | Gargulec-91 here Gargulec-69 ready to receive messages |
| Gargulec-91 tu Gargulec-69 podaję wiadomość<br>102 77 602 06 | Gargulec-91 here Gargulec-69 I give a message<br>102 77 602 06 |
| Gargulec-91 tu Gargulec-69 przygotujcie się do odbioru wiadomości | Gargulec-91 here Gargulec-69 ready to receive messages |
| Gargulec-91 tu Gargulec-69 podaję wiadomość<br>102 74 600 08 | Gargulec-91 here Gargulec-69 I give a message<br>102 74 600 08 |
| Gargulec-91 tu Gargulec-69 przygotujcie się do odbioru wiadomości | Gargulec-91 here Gargulec-69 ready to receive messages |
| Gargulec-91 tu Gargulec-69 podaję wiadomość<br>102 71 610 | Gargulec-91 here Gargulec-69 I give a message<br>102 71 610 |
| Gargulec-91 tu Gargulec-69 przygotujcie się do odbioru wiadomości | Gargulec-91 here Gargulec-69 ready to receive messages |
| Gargulec-91 tu Gargulec-69 podaję wiadomość<br>190 102 190 102 69 610 11 | Gargulec-91 here Gargulec-69 I give a message<br>190 102 190 102 69 610 11 |

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## *Japan Self-Defense Forces*

Copied by André and JPL.

**2772 kHz, 06-02, 0900 UTC**
SÛRÛ wkg HÛÇS, SÛPÇ, ZÇOÛ, SÂOÇ, ZÂÛÇ, SÇRÇ, SÂZÛ, RÇÂZ, ZÛMR, ZÂDÂ, SÛÂO, SÂÂP, ZÇPÂ, SÂÇD, ÛPÂÇ, ZÇÂR, SÇMÂ, SÂRÂ, ÛDÛO, RÇPÛ, ÛDÂP, ZÛSÂ, ZÇÇO, ZÇDÇ, ZÛÇZ, ZÛDÛ, RÇÛR, ÛPÇP, ÛPAZ, RÇSÇ, RÇÂS (Collective callsign)

**5055 kHz, 26-02, 0953 UTC, Japanese Air Force, i.p.**
DE JJS2 R VA (JJS2 ??)
DE JJZ37 R VA (JJZ37 Itazuke)
DE JJT44 R VA (JJT44 Irumagawa)
DE JJU22 R VA VA (JJU22 Asahikawa)

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## *Unid stations*

Found by JPL and André both using receivers in Japan and New Zealand. Info is appreciated.

**3612 kHz, 12-02, 1921 UTC, CW. Presumed Chinese**
VVV VVV ZM4 ZM4 ZM4 de JHH JHH QSA ?
QRU K
QSA 2 QSA ? K
VVVV QSA 1 ÉÉ 38 ÉÉ 38 ÉÉ 38 K
VVV BK QSA 2 QRV K VVV VVV QSA 2 QSA ? K
VVV VVV ZM4 de JHH QSA ? K
VVV VVV QSA 2 QRV K
VVV QSA 1 QSA ? K
VVV QSA 1 ÉÉ 81 ÉÉ 81 K
VVV QSA 0 QSA 0 ÉÉ 38 ÉÉ 38 K
VVV BK BK QSA 3 QRV K ? 1 K ?
2 K QSL QRU AR

**3299.5 kHz, 19-02, 1424 UTC, CW. Presumed Chinese**
LV PTS de GEI 1234 AAA 1234
VVV LV PTH de GEI 1234 AAA 1234
QTC QTC NR NR 21 WU 20 06 19 2300 WTT 118 159 347 545 697 250 =
WV 12340 21950 21032 72049 43947 06314 12348 82049 28034 35714 60254 08643 04234 45890 084636 09540 K

**8246 kHz, 19-02, 1532 UTC, CW**
VVV ZIL DE U4G
QSV K
ZIL DE U4G
QSU 895O (Cont'd)
QSV K
R U ..
0T MSG DE SHDA ?
OU KE BSX VA
QR. TU VA
E VA

**4798 kHz, 17-02, 1842 UTC, CW. Presumed Chinese**
VVV 7N4 DE 9JC QRU
VVV 7N4 de 9JC QRU
96941 VA AR

**5494 kHz, 21-02, 1446 UTC, CW**
VV 9BR DE PNA
QSV K

# *RUSSIAN MILITARY TRANSCRIPTS*

A large amount of Russian military logs submitted by André, Wolfgang, JPL, Ron, Jay, Tom and Ary

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## *RMv/RNv/RNAv/RAv*
## *Russian military stations*

Frequency: various  Mode: USB/LSB voice

RMv – Russian Military

| | |
|---|---|
| 2630 kHz, 08-02, 1537 UTC | FAKTOR- 51 wlg DOMA-38 |
| 2463 kHz, 14-02, 1832 UTC | PRANJA-88 clg MIRA-66 comms checks |
| 3213 kHz, 14-02, 1842 UTC | PRANJA-88 clg MIRA-66 comms checks |
| 2262.5 kHz, 14-02, 2118 UTC | SLITA-22 clg VIZMA-88 comms checks |
| 5751.5 kHz, 15-02, 0630 UTC | LATVA-98 clg KATO-46 POZINA-85 YARUS-50 VOK-57 YERMA-15 comms checks |
| 2690 kHz, 17-02, 1851 UTC | AMFIR-99 clg KOLGA-88 HALGAR-88 |
| 7950 kHz, 17-02, 1500 UTC | ARGON-60 and KOREGA-04 clg RUBET-31 PALAR-35 ALPHA-15 KAMIR-23 BIMA-13 BRAVO-64 TABALA-16 GIRP-32 PLUTON-06 DELTA-89 PARUS-25 TUGAR-22 OBLIKA-34 TUMIR 34 |

RNv – Russian Navy

3805 kHz, 15-02, 0715 UTC  PARUS(RJC66) Calling ABFAL (RJX75) KRICHEVOJ (RJI51) for radio checks

RAv – Russian Air Force

**11360 kHz, 03-02**

| | |
|---|---|
| 1055 UTC | Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) calling 82038 (Russian AF AN-124) w/no response. |
| 1240 UTC | Korsar w/93966 (Russian AF A-50-not heard) reporting 3 hrs into flt w/18 tons fuel & "ops normal". ETA landing at Kanatnij (Russian AB, Ivanovo-North) 1550 MSK. |
| 1301 UTC | Korsar w/76726 (IL-76MD-not heard) reporting 4 hrs into flt & next is Tver. |
| 1303 UTC | Korsar w/78794 (IL-76MD-not heard) reporting 6 hrs into flt w/26 tons fuel & next is Chkhalovskij. |
| 1314 UTC | Korsar w/92957 (Russian AF BE-50-not heard) reporting 3 hrs into flt w/20 tons fuel & "ops normal". |
| 1337 UTC | Korsar w/76796 (IL-76MD-not heard) reporting departure from ?Prigorda? at 1600 MSK & next is Karakul (Russian AB, Engels). |
| 1355 UTC | Klarnetist (Russian Air Force 12th Air Transport Division, 6955th Air Base, Migalovo/Tver) w/76726 (IL-76MD) reporting landing at Tver 1655 MSK. |
| 1358 UTC | Acft 82058 calling Korsar & Polis (Russian Air Force 117th Air Transport Regiment, 6956th Air Base, Orenburg) w/no response. |

**8847 kHz, 17-02, 0600 UTC**

KORSAR (334th Air Transport Regiment, 6985th Air Base, Pskov ) Calling KLARNETIST (Rav 12th Air Transport Division, 6955th Air Base, Migalovo/Tver ), POLOTNOY (722nd Bomber Aviation Regiment, Gdov) & KARSTA

**11360 kHz, 15-02**

0930 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov ) w/78749 (IL-76MD) reporting ??3 310

0932 UTC Klarnetist (Russian Air Force 12th Air Transport Division, 6955th Air Base, Migalovo/Tver) w/78797 (IL-76MD-not heard) reporting 1 hr into flt & "ops normal"

0934 UTC Klarnetist w/78845 (IL-76MD-not heard) reporting 610 102. At 0945Z 78845 reports 855 109 then Klarnetist & Korsar exchange flt info. At 0952Z 78845 reports 017 104 to Korsar who relays info to Klarnetist. At 1015Z Korsar QSL's for msg 570 306 835.

0948 UTC Klarnetist w/86102 (unid-not heard) reporting departure from (missed) w/45 tons fuel.

0957 UTC Klarnetist w/76549 (IL-76MD-not heard) reporting 610 102. At 1014Z Koraar QSL's for msg 783 103 894 & relays to Klarnetist. At 1024Z Korsar QSL's for msg 605 104 490 for Klarnetist.

1115 UTC Korsar w/76738 (IL-76MD-not heard) reporting departure from Chkalovskij at 1330 MSK w/56 tons fuel & next is Paradnij (Russian AB Milllerovo).

1300 UTC Acft 76779 (IL-76MD) calling Korsar & Proselok (Russian Air Force 566th Air Transport Regiment, Bryansk) w/no response.

1319 UTC Korsar USB w/78805 (IL-76MD-not heard) reporting 2 hrs into flt w/26 tons fuel & "ops normal".

RADv – Russian Air Defense

2546 kHz, 17-02, 1858 UTC Tracking (Russian Voice)

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## *M32*

## *Russian / CIS Military CW Stations*

**5479 kHz, 02-02, 2025 UTC, i.p.**

DE SDT5 K
CRJR (x3) DE PB3Y (x2) K
CRJR (x3) DE YMX2 (x2) K
CRJR (x3) DE GG8D (x2) K
CRJR (x3) DE TCSD (x2) K

**5899 kHz, 06-02, 0729 UTC**

VQJW wkg KG2P: 162 10 6 1005 162 = ÔOXÛV FFFFF DZEÛD JÔLMI ALKHÔ ÛHOMA UYFÂA IWDPQ SVVVG PYPPO RPT AL K

**3170.5 kHz, 06-02, 1347 UTC**

XXX 9LT8 WDLH 38301 42529 PREVNIJ 1336 3573 K

**3678.5 kHz, 06-02, 1400 UTC**

XXX WAMQ 05988 GIDROLOGIÂ 0214 0901 K 6

**17452 kHz, 09-02, 0825 UTC**

RDL RDL RDL 55901 93131 55901 93131 55901 93131 K

**12152 kHz, 11-02**

0928 UTC 1YNZ 151 20 11 1 224 15 1 = 004 261 =
4600 4775 9346 2487 7936 7941 6548 0013 5130 0924 5505 1541 2984 2571 5808 6273 5193 1117 K

0935 UTC CW14 V6PB DE 1YNZ K

0936 UTC V6PB DE 1YNZ K AS

0938 UTC NW 1YNZ ZWR ZYT ZXJ ZNJ ZLP ZZB QSW3 K

0941 UTC 1YNZ ZWR ZYT ZXJ ZDJ ZLP ZZB QSW3 K

**11074.7 kHz, 11-02, 1128 UTC**

108 42 11 14 30 108 = FM 422548 FOR 925397 = PWABG TOARJ ...

**4855 kHz, 15-02, 2135 UTC, i.p.**
O4R4 DE KHJ4 K
O4R4 DE KHJ4 QSY 51202 QSY 5120 K
QSA 4 QSA ? K
RPT K
RPT K
NIL QRU ... K
RPT K
QAP K

**7922 kHz, 16-02, 1409 UTC, i.p.**
4V6O QBE QYT 6 K
YVSA DE 4V6O QBE QYT 6 K
4V6 EEE R K
NW NBJ5 DE V16H K
NBJ5 DE V1BH QRU ? K
VJBH QRV K

**8543 kHz, 21-02**
1249 UTC XXX 9RPN 97650 SNOHA 1996963634 K
1252 UTC XXX 9RPN 80327 ERUNDOWSKIJ 06671 MOÔSTANIE 7749 1908 K
1254 UTC XXX 9RPN 51271 SLUHOWOJ 7106 3130 K

**3877.5 kHz, 24-07**
1837 UTC RIE83 R XXX 41082 ZAJMOCEH 0192 1270 K
RIF94 R XXX 41082 ZAJMOCEH 0192 1270 K
1843 UTC XXXX RGR70 RIE83 RIF94 72452 ZAIROBOB 2761 7077 K 1846Z
RIE83 R XXX 2452 ZAIROBOB 2761 7077 K
RJD52 OK K
1847 UTC RGR70 R XXX 2452 ZAIROBOB 2761 7077 K
RJD52 COL COR XXX 2452 ZAIROBOB 2761 7077 K
RGR70 R XXX 2452 ZAIROBOB 2761 7077 K
RJD52 OK K
1855 UTC XXX RGR70 RIE83 RIF94 41082 ZAJMOCEH 0192 1270 K 1858Z
RIE83 R XXX 41082 ZAJMOCEH 0192 1270 K
RJD52 RPT K
RIF94 R XXX 41082 ZAJMOCEH 0192 1270 K
RGR70 R XXX 41082 ZAJMOCEH 0192 1270 K
RJD52 OK K
RJD52 DE RIE83 K
RIE83 DE RJD52 R XXX ? K
RIE83 RPT NR 183 AA 15 K
RJD52 AS K
1908 UTC RIE83 de RJD52 REPEAT GROUPS MESSAGE NR 183

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## *M32a*
## *Russian Navy*
## *Voyenno-Morskoy Flot Rossii*

5038 kHz, 06-02, 0708 UTC RJD97 clg RGK39
5404 kHz, 06-02, 0750 UTC XXX WEGI 61088 66232 BOLOKREZ 6193 5465 PAKTOÔERT 0034 0475 K
3227 kHz, 06-02, 1320 UTC XXX RAS95 24170 OPOZDANIE 7644 8821 K
5766 kHz, 07-02, 0715 UTC XXX RAS95 39891 ABORDAV 2919 3285 MORTOSUJ 7288 4361
..INUSKUJ 5632 6734 KADSXNIJ 7019 4478 K
9145 kHz, 09-02, 0842 UTC RIR96 DE RIW QAP K QSU1 QWH 13086 QSX 12260 K
3306.5 kHz, 12-02, 1622 UTC RJQ71 wkg RMP (QSO and QTC) in Simplex 12 févr. 17 (F5JBR)
2737 kHz, 12-02, 1736 UTC REO de RMP QTC SML

3349 kHz, 14-02, 1334 UTC RMP wkg RJH41
6767 kHz, 10-02, 0706 UTC RFI36 wkg RJD97
6767 kHz, 11-02, 0722 UTC RMEG wkg RJD97
4517 kHz, 18-02, 0715 UTC XXX RLO HOLOD 3 K
3890.5 kHz, 18-02, 0720 UTC XXX RLO HOLOD 3 K

**7637.5 kHz, 20-02**
1030 UTC XXX SB1E 16207 WTORVENXE 2975 8212 K
1037 UTC XXX SB1E 20516 16207 WTORVENXE 2975 8212 K -

**6767 kHz, 10-02**
0706 UTC RFI36 clg RJD97 ZGR, ZNÉ, ZGR, ZZT
0722 UTC RMEG clg RJD97 ZGR, ZNÉ, ZGR, ZZT

**12464 kHz, 09-02**
0842 UTC RIR96: LS AZOV. RIW DE RIR96 QSA2 K OK QAP K
0855 UTC RCV DE RBEG QSA2 QRV K. 741 236 9 1120 741 = MMMMM RMWAD ZBKNÜ ÖÜÖDX N EEPY
ÖÜÖDX OMEPY ÖFÖDX OMEPY ODRRR YPPVA BRSWG ZTKAC ..... QSL 741 K
0948 UTC RMCW: Ship Donuzlav. RCV DE RMCW QSA3 QRV K

**8345 kHz, 09-02**
1147 UTC RMP DE RGX80 QSA1 K OK QSU1 QSX 4146 QWH 8195 K - 1212Z OK QYT4 SK K - OK QRR3 QDW 5954 K
1806 UTC RCV DE RMCW 925 17 9 2102 925 = SML FOR RJE73 RJH45 RJH48 =
09181 99206 10377 42997 60210 10249 40142 53010 86030 22232 10266 20402 09012 = + RMCW K
2103 UTC RCV DE RMCW 151 17 10 0001 151 = SML FOR RJE73 RJH45 RJH48 =
9211 99203 10379 42997 82209 10255 40138 58004 87030 22232 10266 20402 10012 = + RMCW K

**5954 kHz, 09-02**
1220 UTC RMP DE RGX80 ZZD3 ZN..-..
1220 UTC RGX80 DE RMP ZZD ?

Several weather reports copied by André.

**7637.5 kHz, 18-02**
0730 UTC WE9I 074 26 18 1025 074 =
ZEF 016348 620224 240971 620474 177276 126690 =
18100 32835 91360 80000 11102 8651X 910XX
18100 42656 95320 60000 11144 81022 85620 905XX
18100 23744 98230 82504 11016 71022 886XX 903XX 18023 K
3NRE de WE9I R 074 ? K
T1YB de WE9I R 074 K

0817 UTC WE9I 443 30 443 =
ZYE 016348 620224 240971 620474 177276 126690 =
18110 32835 91360 80000 11102 8651X 910XX
18110 42656 95320 60000 11144 71022 85620 905XX
18110 23744 98230 82504 11016 71022 886XX 903XX 18023 K
3WNE de WE9I R 443 ? K
T1YB de WE9I R 443 K

0906 UTC SB1E QTC AR
SB1E 407 44 18 1201 407 =
ZTQ 432596 885428 283513 885543 735805 495484 =
AAAAA DDDDD ÔXHUN WMÔEÛ ERGFE KRÔUL KVEXA GCQÛZ FCFOÔ QYIBC ZWHYI DRQOÔ ZKYÔV RJKÛX EÔOBÛ
AKFXE ZDWÛI PLÛPN HRCEH EKDYN EVHKO OHWOU GYFAU UZXNU BVESO SUGHÔ RZFYX RWCOS TIRNM TÔXAF
IBPBA ZOGVS AZCHÛ ÛRXLI WMÔEÛ ERGFE AZKWE K

0930 UTC SB1E QTC AR
SB1E 372 30 18 1224 372 =
ZEO 432596 885428 283513 885543 735805 495484 =
18120 32835 90460 63401 11076 84550 915XX
18120 42656 93460 83501 11070 885XX 917XX
18120 23744 94460 82605 11004 72272 885XX 910XX 18022 K

0959 UTC SB1E QTC AR
SB1E 333 42 18 1253 333 =
ZWL 432596 885428 283513 885543 735805 495484 =
AAAAAA DDDDD ÔNHEV SQXIE UAJCCh GPKOW BNXIO TPUCP DEChAC ALMIY UEXÛE UHDHO EHQRÛ DVDUW
NEKXE TÛJKR VCREL IEChQC GPOJÔ KYUMT IEJVV NOKLH QÛGChD EJLQA USFXE KSLYV QKEHK GTGIS AMYNI
BLXYK UQSYO OWHUÛ SQXIE UAJCCh AZKWG K

**12464 kHz, 18-02, RMCW: Russian Navy Ship Donuzlav**
19828 GRIFOZAM 1130 6327 K
18104 NEUMELOSTX 9352 7702 K
27638 LIDSOWAL 5941 7903 K
04111 ARYKOPUPS 9997 0340 K
81716 GLASOLÄRD 6405 3383 K
51192 GOSSEKTOR 7017 6045 K
66667 KAJFOWOZ 4258 3185 K
30792 DAMPOMAIS 2584 9334 K
34830 ANGIOGRAFIÄ 4167 0336 K
00636 ABBAT 2469 6299 K
04414 MUZYKANTCHA 1542 8698 K
81420 KLÜWOVOR 9737 2975 K

**8345 kHz, 18-02, 1628 UTC**
RMP DE RHC86 QSA2 K
OK QSU1 QSX 4146 QWH 8210 K
RMP DE RHC86 OK QYT4 QSX 4225 QWH 8302 K
QYT4 QWH 8322 K

**12464 kHz, 18-02**
0800 UTC RIW DE RGR70 OK QAP K
OK QYT4 QWH 11703 8700 QSX 12370 8338 FM RAA K
1315 UTC RCV DE RBEG 212 183 18 1610 212 = SML = MMMMMM ROWAD PCHKÜK .....

**15586 kHz, 18-02**
0822 UTC XXX XXX RJV RJV 27638 LIDSOWAL 5941 7903 K
0825 UTC XXX XXX RJV RJV 04111 ARYKOPUPS 9997 0340
0845 UTC XXX XXX RJV RJV 51192 GOSSEKTOR 7017 6045 K

**7861 kHz, 18-02, 1904 UTC**
RHW2 RHW2 DE RAL2 K
RBL71 RBL71 RBL71 DE RAL2 RAL2 QSA? K
RFH2 RFH2 RFH2 DE RAL2 RAL2 QSA? K
RDU2 RDU2 RDU2 DE RAL2 RAL2 QSA? K
RHW2 RHW2 RHW2 DE RAL2 RAL2 QSA? K

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3227 kHz, 06-02, 1353 UTC XXX RAS95 54460 OHLAVDENIE 9039 2846 K
9071.5 kHz, 10-02, 0721 UTC RAO98 clg RJF95
9071.5 kHz, 10-03, 0721 UTC RAO98 wkg RJF95

**8816 kHz, 02-02**
0810 UTC RJF94 RJC38 DE 30846 QTH 4713 3947 QTR 0800 QBG 5500 K
QTH 4933 4112 QTR 0900 QRE XUMO 1130 K
QTH 5158 3943 QTR 1000 QRE XUMO 1130 K
QTH 5312 3840 QTR 1035 QRE XUMO 1125 K
QQM XUMO 1115 SK
1318 UTC RJF94 RJC38 DE 30846 QTO 1310 QRD XLWF XUMO QBD 5100 QRE 1430 K
QQM XLWF 1440 SK
1608 UTC RJF94 RJC38 DE 30846 QTO 1600 QRD XLMV XLWF QBD 5100 QRE 1940 K
QTH 6150 4142 QTR 1700 QBG 5500 K

**8816 kHz, 07-02**
0743 UTC RJF94 RJC38 DE 08521 QTH 7148 3527 QTR 0740 QBG 6400 K
QTH 7636 3943 QTR 0840 QRE XLDH 0940 K
QQM XLDH 0943 SK
1220 UTC RJF94 RJC38 DE 08521 QTO 1208 QRD XLMV XLDH QRE 1510 QBD 12400 K
QTH 7629 3936 QTR 1310 QBG 6700 K
QTH 7108 3504 QTR 1410 QRE XLMV 1455 K
QQM XLMV 1454 SK

**8816 kHz, 08-02**
1102 UTC RJF94 RJC38 DE 08521 QTO 1052 QRD XLAA XLMV QRE 1205 QBD 14200 K
QQM XLAA 1201 SK
1626 UTC RJF94 RJC38 DE 08521 QTO 1617 QRD XLMV XLAA QRE 1740 QBD 14200
QTH 6607 3914 QTR 1651 QRE XLMV 1745 K
QQM XLMV 1749 SK

**8816 kHz, 09-02**
1035 UTC RJC38 RJF94 DE 30840 QTO 1013 QRD XLLP XLMV QRE 1320 QBD 5100 K
QQL ULPE 1127 QBD 4200 QBG 6100 K
QTH 6059 3257 QTR 1225 QBD 3300 QRE XLLP 1300 K
QQM XLLP 1302 SK
1015 UTC RJF94 RJC38 DE 42233 QTO 0947 QRD XUMU XRKE QRE 1200 QBD 14000 K
QTH 5258 3932 QTR 1100 QBG 9500 QBD 10000 K
QQM XUMU 1143 SK
1435 UTC RJF94 RJC38 DE 42233 QTO 1423 QRD XLMV XUMU QRE 1640 QBD 14000 K
QSA1 QAY XLPB 1533 QBG 9100 QBD 10000 K
QQM XLMV 1648 SK
---- UTC RJC38 RJF94 DE 30840 QTO 1653 QRD XUMO XLLP QRE 1850 QBD 5300 K
QTH 5742 3458 QTR 1750 QBD 4100 QRE XUMO 1850 K

**5912 kHz, 13-02, 0729 UTC**
RAO98 QRU K
RJF95 de RCY7 QTC K
RJF95 QRV K
RCY7 795.. 52 13 1044 795 =
RJF95 R 795 K
RCY7 QTC K
RJF95 QRV K

RCY7 ...
RJF95 369 K
RCY7 QTC K
RJF95 QRV K
RCY7 ...
RJF95 R221 K
RCY7 QTC K
RJF95 QRV K
RCY7 RCY7 539 52 13 1120 539 = TCUKE PAGOA WENGO ...
RJF95 R 539 K
RCY7 QRU K

**8816 kHz, 12-02, 1024 UTC**
RJF94 RJC38 DE 75125 QTO
1005 QRD XLLV XLMV QBD 0600 QRE 1215 K
QQL ULPE 1054 QRE XLLV 1200 QBD 0400 K
QQM XLLV 1200 SK

**8816 kHz, 18-02**
0722 UTC RJF94 RJC38 DE 30846 QTO 0715 QRD XLAA XLMG QRE 0845 QBD 0500 K
QTH 16600 13733 QTR 0800 QBD 0400 QBG 5200 QRE XLAA 0835 K
QQM XLAA 0838 SK
0958 UTC RJF94 RJC38 DE 30846 QTO 0947 QRD XLDR XLAA QRE 1215 QBD 0430 K
QQL ULAE 1025 QBD 0400 QBG 5800 K
QTH 16724 14642 QTR 1054 QBD 0330 K
QTH 16847 14918 QTR 1125 QBD0300 QRE XLDR 1225 K
QTH 16949 15022 QTR 1143 QBD 0254 K
QQM XLDR 1222 SK
1046 UTC RJF94 RJC38 DE 08521 QTO1035 QRD XLMV XLWF QRE 1300 QBD 0630 K
QAY XLPB 1123 QBG 6700 K
QQL ULPE 1207 QRE XLMV 1310 K
QQM XLMV 1313 SK
1132 UTC RJF94 RJC38 DE 75125 QTO 1313 QRD XLMV XLLV QBD 0800 QRE 1525 K
QQL ULPE 1425 ...
QQM XLMV 1529 SK
1334 UTC RJF94 RJC38 DE 42233 QTO1323 QRD XLMV XUMU QRE 1545 QBD 0400 K
QSA1 QAY XLPB 1435 QBG 9700 QBD 0240 K
QQL ULPE 1504 QRE XLMV 1555 K
QQM XLMV 1555 SK
1340 UTC RJF94 RJC38 DE 30846 QTO 1333 QRD XLMV XLDR QRE 1535 QBD 0530 K
QTH 17110 14710 QTR 1405 QBD 0440 K
QTH 17027 14214 QTR 1436 QBD 0400 QRE XLMV 1540 K
QTH 16939 13723 QTR 1509 QBD 0330 K
QQM XLMV 1538 SK

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## *M32c*
## *Russian Air Force*
## *Voyenno-vozdushnye sily Rossii*

**8990 kHz, 03-02, 0636-0659 UTC**
NGA5 de MNZQ QSA ? K
MNZQ de NGA5 QSA 1 K
NGA5 de MNZQ QTC K
MNZQ de NGA5 QRV K
NGA5 de MNZQ BLIND QTC = 873 779 723 965 162 572 280 K 0647Z
NGA5 de WYSY K
WYSY de NGA5 K

NGA5 de WYSY QSA 1 QTC k
WYSY de NGA5 QRV K
NGA5 de WYSY = 779 690 119 834 572 478 K
NGA5 ….
NGA5 de WYSY BLIND = 779 690 119 834 572 478 = 779 690 119 834 572 478 = 779 690 119 834 572 478 K
NGA5 R = 779 690 119 834 572 478 K

**8112 kHz, 03-02, 0723 UTC**
GA5 de WYSY K
WYSY de NGA5 K
NGA5 de WYSY QSA 1 QTC K
WYSY de NGA5 QRV K
NGA5 de WYSY = 217 092 845 K
WYSY de NGA5 R = 217 092 845 K

**8112 kHz, 17-02, 0831-1024 UTC**
ZO4G de MOJF QSA ? K
LCPA DE MOJF QSA ? K
NGA5 DE MOJF QSA ? K (sent NRA5)
NGA5 DE TTNG K
NGA5 DE KM5X K
NGA5 DE KM5X K
KM5X = 416 015 417 992 208 741 K
LCPA DE MOJF QSA ? QTC K
LCPA DE MOJF QSA ? QTC K
NGA5 MOJF QSA 2 QTC K (sent NRA5)
MOJF = 562 015 648 362 208 487 K
MOJF = 562 015 648 362 208 487 K
MOJF = 562 015 648 362 208 487 K
MOJF RPT K
MOJF = 562 015 648 362 208 487 K
NGA5 DE TTNG K
NGA5 DE TTNG K
NGA5 de KD8A QSA 1 QSV K
NGA5 DE TTNG K
NGA5 DE KD8A QTC NR 1 K
KD8A = 416 015 188 735 208 716 K
NGA5 R RPT K
KD8A = 416 015 188 735 208 716 K
NGA5 DE TTNG K
LCPA DE KM5X K
NGA5 DE KD8A BLIND GUHOR QTC NR 1 = 416 015 188 735 208 716 = = 416 015 188 735 208 716 K
NGA5 DE LOPX QTC K
NGA5 DE LOPX QTC K
LCPA DE LOPX QSA ? K
LOPX DE NGA5 K
NGA5 DE LOPX QTC K
NGA5 DE LOPX QTC K
NGA5 DE TTNG K
NGA5 DE LOPX QSA ? K
ZO4G DE LOPX QSA ? K (sent LO4G)
NGA5 DE LOPX QTC K
NGA5 DE LOPX K
NGA5 DE TTNG K
NGA5 DE TTNG QSV K
LCPA DE LOPX QSA ? K
ZO4G DE LOPX QSA ? K
LOPX VVV = 781 015 248 579 836 853 K
LOPX VVV = 781 015 248 579 836 853 K
LCPA DE LOPX QSA ? K

LCPA DE KM5X K
ZO4G DE KM5X K
NGA5 DE MOJF QSA ? K (sent NRA5)
NGA5 DE MOJF QSA ? K (sent NRA5)
NGA5 DE MOJF  QTC K
ZO4G DE MOJF QSA ? K
ZO4G DE MOJF QSA ? K
NGA5 DE TTNG K
ZO4G DE MOJF QSA ? K
ZO4G DE MOJF QSA ? QTC K
ZO4G DE MOJF QSA ? K
NGA5 DE TTNG K
NGA5 DE MOJF QSA ? K (sent NRA5)
NGA5 DE LOPX K
ZO4G DE LOPX QSA ? K
NGA5 DE MOJF QSA ? QTC K (sent NRA5)
LCPA DE MOJF QSA ? K
NGA5 DE KD8A BLIND GUHOR QTC NR 2 = 465 046 951 157 366 277 952 203 =  465 046 951 157 366 277 952 203 K
LCPA DE MOJF QSA ? K

**14557 kHz, 03-02**
1140 UTC REA4 REA4 // 03100 99900 02150 27627 70997 23112 11078 21123 73633 82620 // REA4 k
1231 UTC XXX XXX 1QRF 1QRF 33643 SAEKOSMEH 8166 0554

**7785 kHz, 10-02**
0743 UTC XXX 1QRF 35988 VGUTOChY 7124 0717 K
0745 UTC XXX 1QRF 97809 TITROGROB 0880 9033 K
0748 UTC XXX 1QRF 99465 TEMPOKREP 9236 1324 K
0758 UTC XXX 1QRF 80244 VÂZANXE 0539 4019 SWETOLINC 4556 7788 DWUHLETOK 3428 3005 K

**6087 kHz, 10-02**
0802 UTC XXX 1QRF 88429 PIMODZOT 3132 4469 K
0809 UTC XXX 1QRF 03028 BUEKOTES 8323 2321 K
0811 UTC XXX JUE4 11015 DYMOKLYK 7122 9309 K
0816 UTC XXX 1QRF 79859 VUVVANXE 4556 2436 K

**8990 kHz, 14-02, 0600 UTC**
NGA5 DE LOPX QTC K
LOPX VVV = 753 838 370 636 120 659 K
LOPX VVV = 753 838 370 636 120 659 K

8990 kHz, 14-02, 0608 UTC NGA5 DE LOPX QSA ? K
8112 kHz, 17-02, 1801 UTC W-markers: Tu-95MS Bear H net
8112 kHz, 17-02, 1840 UTC W-markers: Tu-95MS Bear H net

**7514 kHz, 17-02**
0845 UTC XXX 1QRF 25621 POLUChANXE 6928 1863 SOUSOROW 8317 1047 K
0937 UTC XXX MSK7 24142 OGRUBELOSTX 7067 7738 K
0950 UTC XXX MSK7 26959 NEDOMYSLXE 8401 2373 K
0955 UTC XXX MSK7 50385 OBOJMA 1295 3614 K
0959 UTC XXX MSK7 31929 RAZBITYJ 8711 5254 K

8112 kHz, 21-02, 1202 UTC W-markers: Tu-95MS Bear H net

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# *JCS FOXTROT MESSAGES & EMERGENCY ACTION MESSAGES*

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

**Frequencies: 4724, 6712, 6739, 8992, 11175, 13200, 15016 kHz**

| | | |
|---|---|---|
| 03-02, 2203 UTC | | 30 chr EAM 443NFK 3VEOZ4S653ZGJMGSKMYTVQR6 |
| 15-02, 1410 UTC | | 30 chr EAM for Inside BQTZHD ETDVLYNN3BK7N63ZWJS5LJEX |
| 17-02, 2139 UTC | Appellate | 47 chr EAM BQ3RMP VCJAVLDTATHQOG2IYRACJGCMTN3G4YCJGHC2DZNIQ |
| 27-02, 1555 UTC | Genetic | 30 chr EAM for Demint JUJPN6 OTLZEVBO7OOHE7RD3EW5KELW |
| 27-02, 1600 UTC | Genetic | 30 chr EAM OPAQP6 D2M6JS624PGAHUTCJM7A2PIQ |
| 27-02, 1606 UTC | Genetic | 30 chr EAM for Demint JUEQXI 2PIGIPAL7JOSO7I22TGNHDZO |
| 27-02, 1647 UTC | Genetic | 30 chr EAM for Kirk-58 JUTNGB XQLZST74LZUHOBJL6CCRDAHP |
| 27-02, 1526 UTC | Genetic | 30 chr EAM for Demint JUFJ6M RGPBRIHQURML5TX5V7T7FDES |
| 27-02, 1744 UTC | Genetic | 30 chr EAM i.p. HUM4SLJ2PL3EIICXVV3I5CW |
| 27-02, 1823 UTC | Genetic | 30 chr EAM for Demint OPUXHT 3F6EMHOS7EL7RQ7QDKMD3Q2T |
| 27-02, 1827 UTC | Genetic | 30 chr EAM for Demint JUOVM7 GX5MABF5SZZYS7DNNRS2CTDD disregard this message |
| 27-02, 1829 UTC | Genetic | 30 chr EAM for Demint JUOVM7 GX5MABF5SZZYS7DNNRS2CTDD |
| 27-02, 1837 UTC | Genetic | 30 chr EAM for Demint JUSSWI 7I4F6EP4HQ54MCS52GQPSXGC |

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## ***LOGS SECTION***

| Code | Freq | Date | UTC | Day | Details | Mode | ctrb |
|---|---|---|---|---|---|---|---|
| --- | 3434 | 6-2 | 1522 | Mon | Possibly M89: Z5J wkg TTI RBT VDZ NR 0314 79 02 07 0030 250 220 = 12091 84555 56822 ... | CW | (F5JBR) |
| --- | 3811 | 6-2 | 1530 | Mon | Possibly M89: VVV M4F de AF9 QSA ? QSY 76 | CW | (F5JBR) |
| --- | 5367 | 7-2 | 0926 | Tue | (possibly M89) CA4 wkg X2N ITW QSA 1 271AA46 K and QSA 0 272AA47 K | CW | (F5JBR) |
| --- | 3230.5 | 7-2 | 1235 | Tue | (possibly M89) MR5 Wkg 46K LAV | CW | (F5JBR) |
| --- | 3230 | 7-2 | 1332 | Tue | (possibly M89) LAV DE ZGW QTC NR 0236 20 02 05 02 2029 1101 = = 24506 ... | CW | (F5JBR) |
| --- | 3272 | 7-2 | 1333 | Tue | (possibly M89) 2CP wkg FSD QTC NR 0236 20 0218 1000 232102 = = 97588 34608 09571 ... | CW | (F5JBR) |
| --- | 3113.5 | 7-2 | 1422 | Tue | (possibly M89) KBJ wkg ZBU QRX 0209 AAA 1000 | CW | (F5JBR) |
| --- | 3051 | 7-2 | 1441 | Tue | (possibly M89) CMG NR 02 14 26 02 07 2300 250 930 = 12091 84544 81111 ... | CW | (F5JBR) |
| --- | 8335 | 12-2 | 0630 | Sun | HOA wkg HZ6 (possibly M89) | CW | (F5JBR-J) |
| --- | 3612 | 12-2 | 1921 | Sun | VVV VVV ZM4 (x3) de JHH (x2) QSA ? QRU K QSA 2 QSA ? K VVVV QSA 1 ... (see N&O 233) | CW | (F5JBR-J) |
| --- | 5494 | 21-2 | 1446 | Tue | VV 9BR DE PNA QSV K | USB | (JPL-NZL) |
| --- | 4798 | 21-2 | 1842 | Tue | Unid Chinese VVV 7N4 de 9JC QRU VVV 7N4 de 9JC QRU 96941 VA AR | CW | (F5JBR-J) |
| **E06** | 4836 | 2-2 | 2030 | Thu | 321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound | USB | (AB/MPJ) |
| **E06** | 4760 | 3-2 | 2130 | Fri | 472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP | USB | (AB) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | shutdown sound | | |
| **E06** | 10308 | 4-2 | 0931 | Sat | 305 246 18 69297 60664 21232 ... 23907 04445 71414 00000 | USB | (ES) |
| **E06** | 14667 | 4-2 | 1014 | Sat | 351 842 55 26443 44827 ... 20527 29081 10460 351 842 00000 | USB | (ES) |
| **E06** | 13931 | 4-2 | 1032 | Sat | 305 246 18 69297 60664 ..... 04445 71414 246 18 00000 | USB | (ES) |
| **E06** | 12211 | 4-2 | 1430 | Sat | Unscheduled txm: 158 643 20 24819 25521 33610 ... 44710 51845 643 20 00000 | USB | (qsr711) |
| **E06** | 7931 | 4-2 | 1530 | Sat | Unscheduled txm: 158 643 20 24819 25521 33610 ... 44710 51845 643 20 00000 | USB | (qsr711) |
| **E06** | 7931 | 4-2 | 1535 | Sat | i.p. 643 20 00000 | USB | (ES) |
| **E06** | 20085 | 16-2 | 0700 | Thu | 702 956 134 73475 16022 64100 ... | USB | (AB) |
| **E06** | 4836 | 16-2 | 2028 | Thu | 321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound | USB | (AB/MPJ) |
| **E06** | 20085 | 17-2 | 0700 | Fri | 702 956 134 73475 16022 ... 45115 31019 956 134 00000 | USB | (ES-AUT) |
| **E06** | 4760 | 17-2 | 2119 | Fri | Test: 111 111 1 | USB | (SG) |
| **E06** | 4760 | 17-2 | 2130 | Fri | 472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound | USB | (AB) |
| **E07** | 6777 | 2-2 | 2110 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 5449 | 2-2 | 2130 | Thu | 744 744 744 000 | AM | (AB/RL-HOL) |
| **E07** | 16161 | 3-2 | 1100 | Fri | 163 163 163 000 | USB | (ES) |
| **E07** | 14661 | 3-2 | 1120 | Fri | 163 163 163 000 | USB | (ES) |
| **E07** | 9347 | 3-2 | 1610 | Fri | 318 318 318 000 | USB | (AB) |
| **E07** | 8147 | 3-2 | 1630 | Fri | 318 318 318 000 | USB | (AB/MPJ) |
| **E07** | 10112 | 4-2 | 0700 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/HFD) |
| **E07** | 11112 | 4-2 | 0720 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/HFD) |
| **E07** | 12112 | 4-2 | 0740 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/HFD) |
| **E07** | 10112 | 5-2 | 0700 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/SP1) |
| **E07** | 11112 | 5-2 | 0720 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB) |
| **E07** | 12112 | 5-2 | 0740 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB) |
| **E07** | 10219 | 5-2 | 1800 | Sun | 215 215 215 000 | AM | (AB) |
| **E07** | 9119 | 5-2 | 1820 | Sun | 215 215 215 000 | AM | (AB) |
| **E07** | 8157 | 6-2 | 2000 | Mon | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ/RL) |
| **E07** | 6857 | 6-2 | 2020 | Mon | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ) |
| **E07** | 5257 | 6-2 | 2040 | Mon | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ) |
| **E07** | 16161 | 7-2 | 1100 | Tue | 163 163 163 0000 | USB | (AB/MPJ) |
| **E07** | 14661 | 7-2 | 1120 | Tue | 163 163 163 0000 | USB | (AB/MPJ) |
| **E07** | 10219 | 8-2 | 1800 | Wed | 215 215 215 000 | USB | (AB/MPJ/HFD) |
| **E07** | 9119 | 8-2 | 1820 | Wed | 215 215 215 000 | USB | (AB/MPJ/HFD) |
| **E07** | 8157 | 8-2 | 2000 | Wed | 182 1 482 85 69679 | USB | (HFD) |
| **E07** | 8157 | 8-2 | 2000 | Wed | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 8-2 | 2020 | Wed | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ/HFD) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **E07** | 5257 | 8-2 | 2040 | Wed | 182 1 482 85 69679 85897 83840 ... 72986 15015 08138 000 000 | USB | (AB/MPJ/HFD) |
| **E07** | 6777 | 9-2 | 2110 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 5449 | 9-2 | 2130 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 16161 | 10-2 | 1100 | Fri | 163 163 163 000 | USB | (AB/RL-HOL/ES) |
| **E07** | 14661 | 10-2 | 1120 | Fri | 163 163 163 000 | USB | (AB/ES) |
| **E07** | 9347 | 10-2 | 1610 | Fri | 318 318 318 000 | USB | (AB/MPJ) |
| **E07** | 8147 | 10-2 | 1630 | Fri | 318 318 318 000 | USB | (AB/MPJ) |
| **E07** | 10112 | 11-2 | 0700 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/ES) |
| **E07** | 11112 | 11-2 | 0720 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/SP1/BvR/ES) |
| **E07** | 12112 | 11-2 | 0740 | Sat | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/BvR/ES) |
| **E07** | 10112 | 12-2 | 0700 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/BvR) |
| **E07** | 11112 | 12-2 | 0720 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/BvR) |
| **E07** | 12112 | 12-2 | 0740 | Sun | 111 1 207 26 63148 54578 44820 ... 61613 71109 31713 000 000 | USB | (AB/BvR) |
| **E07** | 9119 | 12-2 | 1820 | Sun | 215 215 215 000. | USB | (MPJ) |
| **E07** | 8157 | 13-2 | 2000 | Mon | 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 13-2 | 2020 | Mon | 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 5257 | 13-2 | 2040 | Mon | 182 182 182 1 735 87 735 stops and rest-arts 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 16161 | 14-2 | 1100 | Tue | 163 1 400 137 93273 69733 18972 ... 68404 21754 68557 000 000 | USB | (AB/SP1/ES/HFD) |
| **E07** | 14661 | 14-2 | 1120 | Tue | 163 1 400 137 93273 69733 18972 ... 68404 21754 68557 000 000 | USB | (AB/ES/HFD) |
| **E07** | 13361 | 14-2 | 1140 | Tue | 163 1 400 137 93273 69733 18972 ... 68404 21754 68557 000 000 | USB | (AB/ES/HFD) |
| **E07** | 10219 | 15-2 | 1800 | Wed | 215 215 215 000 | USB | (AB/MPJ) |
| **E07** | 9119 | 15-2 | 1820 | Wed | 215 215 215 000 | USB | (AB/MPJ) |
| **E07** | 8157 | 15-2 | 2000 | Wed | 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 15-2 | 2020 | Wed | 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 5257 | 15-2 | 2040 | Wed | 182 1 735 87 69120 89097 99941 ... 51442 71647 15616 000 000 | USB | (AB/MPJ) |
| **E07** | 6777 | 16-2 | 2110 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 5449 | 16-2 | 2130 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 16161 | 17-2 | 1100 | Fri | 163 163 163 000 | USB | (AB/ES) |
| **E07** | 14661 | 17-2 | 1120 | Fri | 163 163 163 000 | USB | (AB/ES) |
| **E07** | 9347 | 17-2 | 1610 | Fri | 318 318 318 000 | USB | (AB/GHn/MPJ) |
| **E07** | 8147 | 17-2 | 1630 | Fri | 318 318 318 000 | USB | (AB/MPJ) |
| **E07** | 10112 | 18-2 | 0700 | Sat | 111 111 111 000 | USB | (AB/ES) |
| **E07** | 11112 | 18-2 | 0720 | Sat | 111 111 111 000 | USB | (AB/ES) |
| **E07** | 10112 | 19-2 | 0700 | Sun | 111 111 111 000 | USB | (AB/BvR) |
| **E07** | 11112 | 19-2 | 0720 | Sun | 111 111 111 000 | USB | (AB/BvR) |
| **E07** | 10219 | 19-2 | 1800 | Sun | 215 215 215 000 | AM | (AB/MPJ) |
| **E07** | 9119 | 19-2 | 1820 | Sun | 215 215 215 000. | AM | (AB/MPJ) |
| **E07** | 8157 | 20-2 | 2000 | Mon | 182 182 1882 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 20-2 | 2020 | Mon | 182 182 182 000 | USB | (AB/MPJ) |
| **E07** | 16161 | 21-2 | 1100 | Tue | 163 1 7786 123 88620 46439 94541 ... | USB | (AB/ES) |

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|---|---|---|---|---|---|---|---|
| | | | | | 37695 51396 16780 000 000 | | |
| **E07** | 14661 | 21-2 | 1120 | Tue | 163 1 7786 123 88620 46439 94541 ... 37695 51396 16780 000 000 | USB | (AB/ES) |
| **E07** | 13361 | 21-2 | 1140 | Tue | 163 1 7786 123 88620 46439 94541 ... 37695 51396 16780 000 000 | USB | (AB/MPJ/ES) |
| **E07** | 10219 | 22-2 | 1800 | Wed | 215 215 215 000 | AM | (AB/MPJ) |
| **E07** | 9119 | 22-2 | 1820 | Wed | 215 215 215 000 | AM | (AB/MPJ) |
| **E07** | 8157 | 22-2 | 2000 | Wed | 182 182 182 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 22-2 | 2020 | Wed | 182 182 182 000 | USB | (AB/MPJ) |
| **E07** | 6777 | 23-2 | 2110 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 5449 | 23-2 | 2130 | Thu | 744 744 744 000 | AM | (AB) |
| **E07** | 16161 | 24-2 | 1100 | Fri | 163 1 7786 123 88620 46439 94541 ... 37695 51396 16780 000 000 | USB | (AB/ES) |
| **E07** | 14661 | 24-2 | 1120 | Fri | 163 1 7786 123 88620 46439 94541 ... 37695 51396 16780 000 000 | USB | (AB/ES) |
| **E07** | 13361 | 24-2 | 1140 | Fri | 163 1 7786 123 88620 46439 94541 ... 37695 51396 16780 000 000 | USB | (AB/MPJ/ES) |
| **E07** | 9347 | 24-2 | 1610 | Fri | 318 318 318 000 | USB | (AB/MPJ/RL-HOL) |
| **E07** | 8147 | 24-2 | 1630 | Fri | 318 318 318 000 | USB | (AB/MPJ) |
| **E07** | 10112 | 25-2 | 0700 | Sat | 111 111 111 000 | USB | (AB/ES) |
| **E07** | 11112 | 25-2 | 0720 | Sat | 111 111 111 000 | USB | (AB/ES) |
| **E07** | 10112 | 26-2 | 0700 | Sun | 111 111 111 000 | USB | (AB) |
| **E07** | 11112 | 26-2 | 0720 | Sun | 111 111 111 000 | USB | (AB) |
| **E07** | 10219 | 26-2 | 1800 | Sun | 215 215 215 000 | AM | (AB/MPJ) |
| **E07** | 9119 | 26-2 | 1820 | Sun | 215 215 215 000 | AM | (AB) |
| **E07** | 8157 | 27-2 | 2000 | Mon | 182 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000 | USB | (AB/MPJ) |
| **E07** | 6857 | 27-2 | 2020 | Mon | 182 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000 | USB | (AB/MPJ) |
| **E07** | 5257 | 27-2 | 2040 | Mon | 182 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000 | USB | (AB/MPJ) |
| **E07** | 6864 | 28-2 | 0700 | Tue | 321 1 101 22 51966 91365 84040 ... 65299 15211 19232 000 000 | USB | (ES) |
| **E07** | 16161 | 28-2 | 1100 | Tue | 163 1 9845 116 00796 21114 60274 ... 59616 74989 75946 000 000 | USB | (AB/MPJ/ES) |
| **E07** | 14661 | 28-2 | 1120 | Tue | 163 1 9845 116 00796 21114 60274 ... 59616 74989 75946 000 000 | USB | (AB/MPJ/ES) |
| **E07** | 13361 | 28-2 | 1140 | Tue | 163 1 9845 116 00796 21114 60274 ... 59616 74989 75946 000 000 | USB | (AB/MPJ/ES) |
| **E07a** | 5877 | 1-2 | 2100 | Wed | 825 825 825 000 | USB | (AB/RL) |
| **E07a** | 5277 | 1-2 | 2120 | Wed | 825 825 825 000 | USB | (AB/RL) |
| **E07a** | 5111 | 2-2 | 0530 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 5811 | 2-2 | 0550 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 9347 | 3-2 | 1610 | Fri | 318 318 318 000 | USB | (HFD) |
| **E07a** | 8147 | 3-2 | 1630 | Fri | 318 318 318 000 | USB | (HFD) |
| **E07a** | 11053 | 4-2 | 0900 | Sat | 015 015 015 000 | USB | (AB/ES/HFD) |
| **E07a** | 12153 | 4-2 | 0920 | Sat | 015 015 015 000 | USB | (AB/ES/HFD) |
| **E07a** | 5877 | 8-2 | 2100 | Wed | 825 825 825 000 | USB | (AB/RL) |
| **E07a** | 5277 | 8-2 | 2120 | Wed | 825 825 825 000 | USB | (AB/RL) |
| **E07a** | 5111 | 9-2 | 0530 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 5811 | 9-2 | 0550 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 11053 | 11-2 | 0900 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E07a** | 12153 | 11-2 | 0920 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E07a** | 5877 | 15-2 | 2100 | Wed | 825 825 825 000 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| **E07a** | 5277 | 15-2 | 2120 | Wed | 825 825 825 000 | USB | (AB) |
| **E07a** | 5111 | 16-2 | 0530 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 5811 | 16-2 | 0550 | Thu | 189 189 189 000 | USB | (AB/ES) |
| **E07a** | 11053 | 18-2 | 0900 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E07a** | 12153 | 18-2 | 0920 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E07a** | 5877 | 22-2 | 2100 | Wed | 825 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB) |
| **E07a** | 5277 | 22-2 | 2120 | Wed | 825 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB) |
| **E07a** | 4577 | 22-2 | 2140 | Wed | 825 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB) |
| **E07a** | 5111 | 23-2 | 0530 | Thu | 189 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB/ES) |
| **E07a** | 5811 | 23-2 | 0550 | Thu | 189 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB/ES) |
| **E07a** | 6911 | 23-2 | 0610 | Thu | 189 1 61815 3643 79 44343 61352 53860 ... 14949 65157 79503 000 000 | USB | (AB/ES) |
| **E07a** | 11053 | 25-2 | 0900 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E07a** | 12153 | 25-2 | 0920 | Sat | 015 015 015 000 | USB | (AB/ES) |
| **E11** | 10429 | 1-2 | 0805 | Wed | 310/00 | USB | (AB) |
| **E11** | 9446 | 1-2 | 0900 | Wed | 534/00 | USB | (AB/ES) |
| **E11** | 7984 | 1-2 | 1205 | Wed | 464/00 | USB | (AB) |
| **E11** | 10448 | 1-2 | 1625 | Wed | 970/00 | USB | (AB/MPJ) |
| **E11** | 9443 | 1-2 | 1705 | Wed | 391/00 | USB | (AB) |
| **E11** | 8545 | 1-2 | 1730 | Wed | 409/00 | USB | (AB/MPJ) |
| **E11** | 5779 | 2-2 | 0315 | Thu | 255/00 ?? | USB | (AB) |
| **E11** | 6849 | 2-2 | 0530 | Thu | 641/00 | USB | (AB/ES) |
| **E11** | 7840 | 2-2 | 0645 | Thu | 517/00 | USB | (AB) |
| **E11** | 12924 | 2-2 | 0710 | Thu | 496/00 | USB | (AB-POL) |
| **E11** | 16112 | 2-2 | 0745 | Thu | 332/00 | USB | (AB) |
| **E11** | 11100 | 2-2 | 0820 | Thu | 434/00 | USB | (AB) |
| **E11** | 5409 | 2-2 | 1530 | Thu | 266/00 | USB | (AB/GHn/MPJ/RL-HOL) |
| **E11** | 5082 | 2-2 | 1730 | Thu | 415/00 | USB | (MPJ) |
| **E11** | 9130 | 3-2 | 0710 | Fri | 639/00 | USB | (AB) |
| **E11** | 16112 | 3-2 | 0730 | Fri | 359/00 | USB | (AB) |
| **E11** | 8800 | 3-2 | 1000 | Fri | 309/00 | USB | (AB/ES) |
| **E11** | 20167 | 3-2 | 1225 | Fri | 520/00 | USB | (AB-POL) |
| **E11** | 6304 | 3-2 | 2000 | Fri | 574/00 | USB | (AB) |
| **E11** | 14666 | 4-2 | 1345 | Sat | 910/00 | USB | (GHn/MPJ) |
| **E11** | 9443 | 4-2 | 1705 | Sat | 395/00 | USB | (AB/RL-HOL/ES) |
| **E11** | 8545 | 4-2 | 1730 | Sat | 400/00 | USB | (AB/RL-HOL/MPJ) |
| **E11** | 10429 | 5-2 | 0805 | Sun | 312/00 | USB | (AB/SP1) |
| **E11** | 4505 | 5-2 | 1605 | Sun | 237/00 | USB | (AB) |
| **E11** | 10448 | 5-2 | 1625 | Sun | 974/00 | USB | (AB) |
| **E11** | 10213 | 6-2 | 0745 | Mon | 269/00 | USB | (AB) |
| **E11** | 11100 | 6-2 | 0820 | Mon | 431/00 | USB | (AB) |
| **E11** | 9446 | 6-2 | 0900 | Mon | 534/00 | USB | (AB) |
| **E11** | 12924 | 6-2 | 1745 | Mon | 247/00 | USB | (AB) |
| **E11** | 7840 | 7-2 | 0645 | Tue | 519/00 | USB | (AB) |
| **E11** | 16112 | 7-2 | 0745 | Tue | 333/00 | USB | (AB) |
| **E11** | 8800 | 7-2 | 1000 | Tue | 302/00 | USB | (AB/ES) |
| **E11** | 12153 | 7-2 | 1045 | Tue | 576/00 | USB | (AB/MPJ/ES) |
| **E11** | 7984 | 7-2 | 1205 | Tue | 466/00 | USB | (AB) |
| **E11** | 14666 | 7-2 | 1345 | Tue | 911/00 | USB | (AB/MPJ/ES) |
| **E11** | 4505 | 7-2 | 1605 | Tue | 237/00 | USB | (AB/MPJ) |

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|---|---|---|---|---|---|---|---|
| **E11** | 17535 | 8-2 | 0545 | Wed | 349/00 | USB | (AB) |
| **E11** | 10429 | 8-2 | 0805 | Wed | 316/00 | USB | (AB/ES) |
| **E11** | 9446 | 8-2 | 0900 | Wed | 536/00 | USB | (AB/ES) |
| **E11** | 9950 | 8-2 | 0930 | Wed | 278/00 | USB | (AB/ES) |
| **E11** | 7984 | 8-2 | 1205 | Wed | 462/00 | USB | (AB/MPJ) |
| **E11** | 10728 | 8-2 | 1540 | Wed | 563/00 | USB | (MPJ) |
| **E11** | 10448 | 8-2 | 1625 | Wed | 976/00 | USB | (MPJ) |
| **E11** | 8545 | 8-2 | 1730 | Wed | 400/00 | USB | (AB/MPJ) |
| **E11** | 7840 | 9-2 | 0645 | Thu | 511/00 | USB | (AB) |
| **E11** | 12924 | 9-2 | 0710 | Thu | 491/00 | USB | (AB) |
| **E11** | 11100 | 9-2 | 0820 | Thu | 439/00 | USB | (AB/SG) |
| **E11** | 9950 | 9-2 | 0930 | Thu | 275/00 | USB | (AB/ES) |
| **E11** | 8680 | 9-2 | 1300 | Thu | 586/00 | USB | (MPJ/RL-HOL) |
| **E11** | 5409 | 9-2 | 1530 | Thu | 264/00 | USB | (AB/MPJ) |
| **E11** | 8800 | 10-2 | 1000 | Fri | 305/00 | USB | (AB/ES) |
| **E11** | 20167 | 10-2 | 1225 | Fri | 520/00 | USB | (AB-RUS) |
| **E11** | 6304 | 10-2 | 2000 | Fri | 571/00 | USB | (AB/MPJ) |
| **E11** | 8680 | 11-2 | 1300 | Sat | 585/00 | USB | (AB/ES) |
| **E11** | 14666 | 11-2 | 1345 | Sat | 918/00 | USB | (AB) |
| **E11** | 8545 | 11-2 | 1730 | Sat | 408/00 | USB | (AB/MPJ) |
| **E11** | 11107 | 11-2 | 2005 | Sat | ???/00 | USB | (ES) |
| **E11** | 10429 | 12-2 | 0805 | Sun | 319/00 | USB | (AB) |
| **E11** | 4505 | 12-2 | 1605 | Sun | 230/00 | USB | (AB) |
| **E11** | 10448 | 12-2 | 1625 | Sun | 970/00 | USB | (AB) |
| **E11** | 12924 | 12-2 | 1745 | Sun | 246/00 | USB | (AB/BvR/MPJ) |
| **E11** | 6849 | 13-2 | 0530 | Mon | 649/00 | USB | (AB-POL) |
| **E11** | 9130 | 14-2 | 0710 | Tue | 639/00 | USB | (AB) |
| **E11** | 16112 | 14-2 | 0745 | Tue | 332/00 | USB | (AB) |
| **E11** | 7984 | 14-2 | 1205 | Tue | 463/00 | USB | (AB/ES) |
| **E11** | 4505 | 14-2 | 1605 | Tue | 238/00 | USB | (AB/MPJ) |
| **E11** | 5779 | 15-2 | 0315 | Wed | 259/00 | USB | (AB/ES) |
| **E11** | 17535 | 15-2 | 0545 | Wed | 342/00 | USB | (AB-POL) |
| **E11** | 9950 | 15-2 | 0930 | Wed | 277/00 | USB | (AB/ES) |
| **E11** | 7984 | 15-2 | 1205 | Wed | 462/00 | USB | (AB) |
| **E11** | 9443 | 15-2 | 1705 | Wed | 391/00 | USB | (AB/GHn/MPJ) |
| **E11** | 5779 | 16-2 | 0315 | Thu | 253/00 | USB | (AB) |
| **E11** | 6849 | 16-2 | 0530 | Thu | 640/00 | USB | (AB/ES) |
| **E11** | 16112 | 16-2 | 0745 | Thu | 333/00 | USB | (AB) |
| **E11** | 9950 | 16-2 | 0930 | Thu | 276/00 | USB | (AB) |
| **E11** | 8680 | 16-2 | 1300 | Thu | 588/00 | USB | (AB/GHn/MPJ) |
| **E11** | 5082 | 16-2 | 1730 | Thu | 415/00 | USB | (AB-S/MPJ) |
| **E11** | 12057 | 16-2 | 1925 | Thu | 527/00 | USB | (AB-I) |
| **E11** | 17535 | 17-2 | 0545 | Fri | 344/00 | USB | (AB-POL) |
| **E11** | 9130 | 17-2 | 0710 | Fri | 630/00 | USB | (AB) |
| **E11** | 16112 | 17-2 | 0730 | Fri | 353/00 | USB | (ES) |
| **E11** | 20167 | 17-2 | 1225 | Fri | 528/00 | USB | (AB/MPJ/ES) |
| **E11** | 8680 | 18-2 | 1300 | Sat | 587/00 | USB | (AB/ES) |
| **E11** | 9443 | 18-2 | 1705 | Sat | 393/00 | USB | (AB/ES/MPJ) |
| **E11** | 11107 | 18-2 | 2005 | Sat | 366/00 | USB | (AB) |
| **E11** | 16112 | 19-2 | 0730 | Sun | 350/00 | USB | (AB) |
| **E11** | 4505 | 19-2 | 1605 | Sun | 236/00 | USB | (AB) |
| **E11** | 16335 | 19-2 | 1650 | Sun | 925/00 | USB | (RL/MPJ) |
| **E11** | 6849 | 20-2 | 0530 | Mon | 648/00 | USB | (AB) |
| **E11** | 10213 | 20-2 | 0745 | Mon | 260/00 | USB | (AB) |
| **E11** | 11100 | 20-2 | 0820 | Mon | 436/00 | USB | (AB) |
| **E11** | 9446 | 20-2 | 0900 | Mon | 532/00 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| **E11** | 9446 | 20-2 | 0900 | Mon | 535/00 | USB | (AB) |
| **E11** | 7840 | 21-2 | 0645 | Tue | 517/00 | USB | (AB) |
| **E11** | 9130 | 21-2 | 0710 | Tue | 639/00 | USB | (AB) |
| **E11** | 8800 | 21-2 | 1000 | Tue | 300/00 | USB | (AB/ES) |
| **E11** | 12153 | 21-2 | 1045 | Tue | 573/00 | USB | (AB) |
| **E11** | 14666 | 21-2 | 1345 | Tue | 917/00 | USB | (AB/GHn/MPJ) |
| **E11** | 5779 | 22-2 | 0315 | Wed | 259/00 | USB | (AB) |
| **E11** | 17535 | 22-2 | 0545 | Wed | 346/00 | USB | (AB-POL) |
| **E11** | 10429 | 22-2 | 0805 | Wed | 319/00 | USB | (AB) |
| **E11** | 9446 | 22-2 | 0900 | Wed | 536/00 | USB | (AB) |
| **E11** | 9950 | 22-2 | 0930 | Wed | 277/00 | USB | (AB/ES) |
| **E11** | 10448 | 22-2 | 1625 | Wed | 975/00 | USB | (AB/MPJ) |
| **E11** | 9443 | 22-2 | 1705 | Wed | 399/00 | USB | (AB/MPJ) |
| **E11** | 8545 | 22-2 | 1730 | Wed | 405/00 | USB | (AB/MPJ) |
| **E11** | 5779 | 23-2 | 0315 | Thu | 259/00 | USB | (AB) |
| **E11** | 6849 | 23-2 | 0530 | Thu | 641/00 | USB | (AB/ES) |
| **E11** | 7840 | 23-2 | 0645 | Thu | 518/00 | USB | (AB/ES) |
| **E11** | 12924 | 23-2 | 0710 | Thu | 490/00 | USB | (AB-POL/ES) |
| **E11** | 11100 | 23-2 | 0820 | Thu | 432/00 | USB | (AB/ES) |
| **E11** | 9950 | 23-2 | 0930 | Thu | 279/00 | USB | (AB) |
| **E11** | 8680 | 23-2 | 1300 | Thu | 586/00 | USB | (AB/ES/MPJ) |
| **E11** | 5409 | 23-2 | 1530 | Thu | 262/00 | USB | (AB/MPJ) |
| **E11** | 5082 | 23-2 | 1730 | Thu | 415/00 | USB | (AB/MPJ) |
| **E11** | 17535 | 24-2 | 0545 | Fri | 346/00 | USB | (AB-POL) |
| **E11** | 9130 | 24-2 | 0710 | Fri | 635/00 | USB | (AB) |
| **E11** | 16112 | 24-2 | 0730 | Fri | 358/00 | USB | (AB) |
| **E11** | 8800 | 24-2 | 1000 | Fri | 302/00 | USB | (AB/ES) |
| **E11** | 6304 | 24-2 | 2000 | Fri | 571/00 | USB | (AB/RL-HOL) |
| **E11** | 8680 | 25-2 | 1300 | Sat | 588/00 | USB | (AB) |
| **E11** | 14666 | 25-2 | 1345 | Sat | 915/00 | USB | (AB/ES/MPJ) |
| **E11** | 9443 | 25-2 | 1705 | Sat | 391/00 | USB | (AB/MPJ) |
| **E11** | 8545 | 25-2 | 1730 | Sat | 402/00 | USB | (AB/GHn/BvR) |
| **E11** | 16112 | 26-2 | 0730 | Sun | 350/00 | USB | (AB) |
| **E11** | 10429 | 26-2 | 0805 | Sun | 311/00 | USB | (AB) |
| **E11** | 10448 | 26-2 | 1625 | Sun | 972/00 | USB | (AB) |
| **E11** | 16335 | 26-2 | 1650 | Sun | 920/00 | USB | (MPJ/RL) |
| **E11** | 5082 | 27-2 | 0450 | Mon | 418/00 | USB | (AB) |
| **E11** | 6849 | 27-2 | 0530 | Mon | 641/00 | USB | (AB) |
| **E11** | 10213 | 27-2 | 0745 | Mon | 261/00 | USB | (HFD) |
| **E11** | 10213 | 27-2 | 0745 | Mon | 261/00 | USB | (AB) |
| **E11** | 11100 | 27-2 | 0820 | Mon | 432/00 | USB | (AB) |
| **E11** | 20167 | 27-2 | 1225 | Mon | 525/00 | USB | (AB) |
| **E11** | 12924 | 27-2 | 1745 | Mon | 246/00 | USB | (AB-POL/MPJ) |
| **E11** | 7840 | 28-2 | 0645 | Tue | 514/00 | USB | (AB/ES) |
| **E11** | 9130 | 28-2 | 0710 | Tue | 632/00 | USB | (AB/ES) |
| **E11** | 16112 | 28-2 | 0745 | Tue | 337/00 | USB | (ES) |
| **E11** | 8800 | 28-2 | 1000 | Tue | 306/00 | USB | (AB/ES) |
| **E11** | 12153 | 28-2 | 1045 | Tue | 579/00 | USB | (AB/ES) |
| **E11** | 7984 | 28-2 | 1205 | Tue | 466/00 | USB | (AB/MPJ/ES) |
| **E11** | 14666 | 28-2 | 1345 | Tue | 914/00 | USB | (GHn/MPJ) |
| **E11** | 4505 | 28-2 | 1605 | Tue | 237/00 | USB | (AB) |
| **E11a** | 17535 | 1-2 | 0545 | Wed | 347/37 Attention 14521 66706 06230 ... 69940 76042 55341 Attention, rpt msg, out | USB | (Danix) |
| **E11a** | 9950 | 1-2 | 0930 | Wed | 270/30 Attention 71914 68896 87303 ... 48778 83563 82685 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 9950 | 2-2 | 0930 | Thu | 270/30 Attention 71914 68896 87303 ... | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| | | | | | 48778 83563 82685 Attention, rpt msg, out | | |
| **E11a** | 8680 | 2-2 | 1300 | Thu | 587/31 Attention 31373 73777 07994 ... 42190 83692 09125 Attention, rpt msg, out | USB | (AB/ES/MPJ) |
| **E11a** | 16335 | 3-2 | 1650 | Fri | 922/39 Attention 25797 06921 38528 ... 49905 02208 54120 Attention, rpt msg, out | USB | (AB-POL) |
| **E11a** | 8680 | 4-2 | 1300 | Sat | 587/31 Attention 31373 73777 07994 ... 42190 83692 09125 Attention, rpt msg, out | USB | (AB/GHn) |
| **E11a** | 6849 | 6-2 | 0530 | Mon | 646/33 Attention 06908 36523 77303 ... 37408 63540 15373 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 9130 | 7-2 | 0710 | Tue | 639/37 Attention 33830 95858 42066 ... 26907 22213 43122 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 5779 | 8-2 | 0315 | Wed | Message | USB | (AB) |
| **E11a** | 9443 | 8-2 | 1705 | Wed | 393/33 Attention 80006 84972 82931 ... 87172 09755 11864 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 5779 | 9-2 | 0315 | Thu | Message | USB | (AB) |
| **E11a** | 6849 | 9-2 | 0530 | Thu | 646/33 Attention 06908 36523 77303 ... 37408 63540 15373 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 5082 | 9-2 | 1730 | Thu | 416/36 Attention 12675 29549 56738 ... 45388 30785 00153 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 9130 | 10-2 | 0710 | Fri | 639/37 Attention 33830 95858 42066 ... 26907 22213 43122 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 16112 | 10-2 | 0730 | Fri | 359/38 Attention 83083 96296 10096 ... 75768 22967 35651 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 9443 | 11-2 | 1705 | Sat | 393/33 Attention 80006 84972 82931 ... 87172 09755 11864 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 16112 | 12-2 | 0730 | Sun | 359/38 Attention 83083 96296 10096 ... 75768 22967 35651 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 10213 | 13-2 | 0745 | Mon | 264/37 Attention 40536 65124 67351 ... 66190 38672 32608 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 11100 | 13-2 | 0820 | Mon | 438/32 Attention 88441 91012 04902 ... 38914 58473 01387 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 9446 | 13-2 | 0900 | Mon | 530/37 Attention 84988 71932 89108 ... 54932 35563 02174 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 12924 | 13-2 | 1745 | Mon | 245/35 Attention 01974 54403 58048 ... 95169 35315 06983 Attention, rpt msg, out | USB | (AB-POL) |
| **E11a** | 7840 | 14-2 | 0645 | Tue | 518/39 Attention 47701 65464 27649 ... 92255 96429 30791 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 8800 | 14-2 | 1000 | Tue | 307/35 Attention 10672 29610 13380 ... 94661 55161 06248 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 12153 | 14-2 | 1045 | Tue | 577/33 Attention 75548 80615 93206 ... 15430 35399 19373 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 14666 | 14-2 | 1345 | Tue | 911/34 Attention 75358 57100 04642 ... 04841 05835 60682 13014 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 10429 | 15-2 | 0805 | Wed | 314/37 Attention 33641 38471 18992 ... 92944 86942 16119 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 9446 | 15-2 | 0900 | Wed | 530/37 Attention 84988 71932 89108 ... 54932 35563 02174 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 10448 | 15-2 | 1625 | Wed | 970/37 Attention 04857 21246 46644 ... 83078 66955 98346 Attention, rpt msg, out | USB | (AB/GHn/MPJ/SG) |
| **E11a** | 8545 | 15-2 | 1730 | Wed | 409/37 Attention 23631 51004 39125 ... 43781 43906 00855 Attention, rpt msg, out | USB | (AB/GHn/MPJ/SG) |
| **E11a** | 7840 | 16-2 | 0645 | Thu | 518/39 Attention 47701 65464 27649 ... 92255 96429 30791 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 12924 | 16-2 | 0710 | Thu | 492/33 Attention 91683 93673 76584 ... 16818 69466 38134 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 11100 | 16-2 | 0820 | Thu | 438/32 Attention 88441 91012 04902 ... 38914 58473 01387 Attention, rpt msg, out | USB | (AB/ES) |

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|---|---|---|---|---|---|---|---|
| **E11a** | 5409 | 16-2 | 1530 | Thu | 264/37 Attention 40536 65124 67351 06625 ... 66190 38672 32608 Attention, rpt msg, out | USB | (AB/F5JBR/ES) |
| **E11a** | 8800 | 17-2 | 1000 | Fri | 307/35 Attention 10672 29610 13380 ... 94661 55161 06248 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 6304 | 17-2 | 2000 | Fri | 577/33 Attention 75548 80615 93206 ... 15430 35399 19373 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 12924 | 18-2 | 0710 | Sat | 492/33 Attention 91683 93673 76584 ... 16818 69466 38134 Attention, rpt msg, out | USB | (AB-POL) |
| **E11a** | 14666 | 18-2 | 1345 | Sat | 911/34 Attention 75358 57100 04642 ... 05835 60682 13014 Attention, rpt msg, out | USB | (ES/MPJ) |
| **E11a** | 8545 | 18-2 | 1730 | Sat | 409/37 Attention 23631 51004 39125 ... 43781 43906 00855 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 10429 | 19-2 | 0805 | Sun | 314/37 Attention 33641 38471 18992 ... 92944 86942 16119 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 10448 | 19-2 | 1625 | Sun | 970/37 Attention 04857 21246 46644 ... 83078 66955 98346 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 12924 | 19-2 | 1745 | Sun | 245/35 Attention 01974 54403 58048 ... 95169 35315 06983 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 20167 | 20-2 | 1225 | Mon | 528/34 Attention ... | USB | (AB) |
| **E11a** | 16112 | 21-2 | 0745 | Tue | 331/34 Attention 99198 86380 64080 ... 21004 69477 31031 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 7984 | 21-2 | 1205 | Tue | 460/35 Attention 16156 08917 24473 ... 52327 14817 78197 Attention, rpt msg, out | USB | (AB/MPJ/ES) |
| **E11a** | 4505 | 21-2 | 1605 | Tue | 236/39 Attention 78610 73548 54899 ... 79772 91384 85150 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 7984 | 22-2 | 1205 | Wed | 460/35 Attention 16156 08917 24473 ... 52327 14817 78197 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E11a** | 16112 | 23-2 | 0745 | Thu | 331/34 Attention 99198 86380 64080 ... 21004 69477 31031 Attention, rpt msg, out | USB | (AB) |
| **E11a** | 20167 | 24-2 | 1225 | Fri | 528/34 Attention 13743 03037 98150 ... 62782 57795 65734 Attention, rpt msg, out | USB | (AB/ES) |
| **E11a** | 4505 | 26-2 | 1605 | Sun | 236/39 Attention 78610 73548 54899 ... 79772 91384 85150 Attention, rpt msg, out | USB | (AB/MPJ) |
| **E17z** | 11170 | 2-2 | 0800 | Thu | 674 210 5 40048 43617 30343 84217 43043 210 5 00000 | USB | (AB/ES/MPJ) |
| **E17z** | 9820 | 2-2 | 0810 | Thu | 674 210 5 40048 43617 30343 84217 43043 210 5 00000 | USB | (AB/ES/MPJ) |
| **E17z** | 11170 | 9-2 | 0800 | Thu | 674 210 5 40048 43617 30343 84217 43043 210 5 00000 | USB | (AB/MPJ) |
| **E17z** | 9820 | 9-2 | 0810 | Thu | 674 210 5 40048 43617 30343 84217 43043 210 5 00000 | USB | (AB/MPJ) |
| **E17z** | 11170 | 16-2 | 0800 | Thu | 674 213 5 33362 32079 40063 40372 89762 213 5 00000 | USB | (AB/MPJ/ES) |
| **E17z** | 9820 | 16-2 | 0810 | Thu | 674 213 5 33362 32079 40063 40372 89762 213 5 00000 | USB | (AB/SP1/MPJ/ES) |
| **E17z** | 11170 | 23-2 | 0800 | Thu | 674 213 5 33362 32079 40063 40372 89762 213 5 00000 | USB | (AB/ES/MPJ) |
| **E17z** | 9820 | 23-2 | 0810 | Thu | 674 213 5 33362 32079 40063 40372 89762 213 5 00000 | USB | (AB/ES/MPJ) |
| **E25** | 9600 | 4-2 | 1129 | Sat | Near Eastern style music ending with test tone | AM | (ES) |
| **E25** | 9600 | 8-2 | 1226 | Wed | Near Eastern style music i.p. ending with test tone | AM | (ES) |
| **E25** | 9600 | 16-2 | 1105 | Thu | Near Eastern music i.p. followed by test tone | AM | (ES-GRC) |
| **E25** | 9600 | 17-2 | 1102 | Fri | Near Eastern music i.p. followed by test tone | AM | (ES-GRC) |

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|---|---|---|---|---|---|---|---|
| **E25** | 9600 | 18-2 | 1100 | Sat | Near Eastern music i.p. followed by test tone | AM | (ES-GRC) |
| **E25** | 9600 | 20-2 | 1110 | Mon | Near Eastern music. Preceded by continuous test tone from 1057z - Music 1110z - Carrier off 1114z | AM | (ES) |
| **E25** | 9600 | 23-2 | 1058 | Thu | Near Eastern music, preceded by continuous test tone | AM | (F5JBR) |
| **EGY** | 16056.7 | 5-2 | 1330 | Sun | MFA Cairo clg KKXB Egyptian embassy Kinshasa | SITOR 100/170 | (RB2) |
| **EGY** | 9046.7 | 12-2 | 1412 | Sun | clg OOVC Egyptian embassy New Delhi, then KSR KDKOJKD CFUWXDZ MLKY RKS LKCDYGS KGH+??((( into CODAN data | SITOR-A 100/170 | (AB) |
| **EGY** | 9046.7 | 12-2 | 1417 | Sun | clg OOVC Egyptian embassy New Delhi, then KSR KDKOJKD CFUWXDZ MLKY RKS LKCDYGS KGH+??((( into CODAN data | SITOR-A 100/170 | (AB) |
| **EGY** | 9046.7 | 12-2 | 1430 | Sun | clg OOVC Egyptian embassy New Delhi, then HFKY+? followed by CODAN data | SITOR-A 100/170 | (AB) |
| **EGY** | 9046.7 | 12-2 | 1447 | Sun | clg OOVC Egyptian embassy New Delhi | SITOR-A 100/170 | (AB) |
| **EV02** | 17994 | 15-2 | 0455 | Wed | Operator reading a story about Napoleon. Probably US signals training | USB | (EW) |
| **F01** | 8156 | 1-2 | 1940 | Wed | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix) |
| **F01** | 6844 | 1-2 | 1950 | Wed | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix) |
| **F01** | 4527 | 1-2 | 2000 | Wed | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 18401 | 3-2 | 2240 | Fri | Link ID 00116, Date 3rd, Serial #5, Groups 179. Header: 11177 00116 62834 03005 01799 | FSK 200/500 | (Danix-USA) |
| **F01** | 10421 | 4-2 | 1240 | Sat | Russian diplo/intel. Serial #6, Groups 273: 06817 21105 82236 ... 51491 58768 06273 00000 | FSK 200/50 | (Danix) |
| **F01** | 8016 | 4-2 | 1250 | Sat | Russian diplo/intel. Serial #6, Groups 273: 06817 21105 82236 ... 51491 58768 06273 00000 | FSK 200/50 | (Danix) |
| **F01** | 6812 | 4-2 | 1300 | Sat | Russian diplo/intel. Serial #6, Groups 273: 06817 21105 82236 ... 51491 58768 06273 00000 | FSK 200/50 | (Danix) |
| **F01** | 19441 | 4-2 | 1300 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/RL/HFD) |
| **F01** | 17456 | 4-2 | 1310 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/RL/HFD) |
| **F01** | 15817 | 4-2 | 1320 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/HFD) |
| **F01** | 9153 | 4-2 | 1810 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 7641 | 4-2 | 1820 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix) |
| **F01** | 5251 | 4-2 | 1830 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix) |
| **F01** | 17471 | 10-2 | 0003 | Fri | Russian diplo/intel. =8031 65270264075467868 ... )57683 00000++++++++++144 | FSK 200/500 | (SP1) |
| **F01** | 19441 | 11-2 | 1300 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/RL/Danix) |
| **F01** | 17456 | 11-2 | 1310 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/RL/MPJ/Danix) |
| **F01** | 15817 | 11-2 | 1320 | Sat | Russian diplo/intel. )5761 | FSK 200/50 | (AB/Danix) |

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|---|---|---|---|---|---|---|---|
| | | | | | 00000++++++++++162 | | |
| **F01** | 9153 | 11-2 | 1810 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB-AUT/Danix) |
| **F01** | 7641 | 11-2 | 1820 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB-AUT/Danix/HFD) |
| **F01** | 5251 | 11-2 | 1830 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix) |
| **F01** | 15803 | 13-2 | 0030 | Mon | Russian diplo/intel. 11177 00117 28674 13007 01799 | FSK 200/500 | (Danix-USA) |
| **F01** | 12195 | 13-2 | 0040 | Mon | Russian diplo/intel. 11177 00117 28674 13007 01799 | FSK 200/500 | (Danix-USA) |
| **F01** | 19441 | 18-2 | 1300 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 17456 | 18-2 | 1310 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 15817 | 18-2 | 1320 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 9153 | 18-2 | 1810 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ/HFD) |
| **F01** | 7641 | 18-2 | 1820 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 5251 | 18-2 | 1830 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ/HFD) |
| **F01** | 15803 | 20-2 | 0027 | Mon | Russian diplo/intel. 11177 00117 47193 17008 01359 | FSK 200/500 | (Danix-USA) |
| **F01** | 12195 | 20-2 | 0038 | Mon | Russian diplo/intel. 11177 00117 47193 17008 01359 | FSK 200/500 | (Danix-USA) |
| **F01** | 15803 | 20-2 | 0125 | Mon | Russian diplo/intel. 11177 00117 47193 17008 01359 | FSK 200/500 | (Danix-USA) |
| **F01** | 12195 | 20-2 | 0135 | Mon | Russian diplo/intel. 11177 00117 47193 17008 01359 | FSK 200/500 | (Danix-USA) |
| **F01** | 20741 | 24-2 | 2230 | Fri | Russian diplo/intel. Link ID 00116, Date 24th, Serial #8, Groups 156. Header: 11177 00116 16358 24008 01569 | FSK 200/500 | (Danix-USA) |
| **F01** | 18401 | 24-2 | 2240 | Fri | Russian diplo/intel. Link ID 00116, Date 24th, Serial #8, Groups 156. Header: 11177 00116 16358 24008 01569 | FSK 200/500 | (Danix-USA) |
| **F01** | 19441 | 25-2 | 1300 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/RL/MPJ) |
| **F01** | 17456 | 25-2 | 1310 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 15817 | 25-2 | 1320 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 9153 | 25-2 | 1810 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 7641 | 25-2 | 1820 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 5251 | 25-2 | 1830 | Sat | Russian diplo/intel. )5761 00000++++++++++162 | FSK 200/50 | (AB/Danix/MPJ) |
| **F01** | 15803 | 27-2 | 0027 | Mon | Russian diplo/intel. Link ID 00117, Date 24th, Serial #9, Groups 148. Header: 11177 00117 71495 24009 01489 | FSK 200/500 | (Danix-USA) |
| **F01** | 12195 | 27-2 | 0037 | Mon | Russian diplo/intel. Link ID 00117, Date 24th, Serial #9, Groups 148. Header: 11177 00117 71495 24009 01489 | FSK 200/500 | (Danix-USA) |
| **F01** | 15803 | 27-2 | 0125 | Mon | Russian diplo/intel. Link ID 00117, Date 24th, Serial #9, Groups 148. Header: 11177 00117 71495 24009 01489 | FSK 200/500 | (Danix-USA) |

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|---|---|---|---|---|---|---|---|
| **F01** | 12195 | 27-2 | 0135 | Mon | Russian diplo/intel. Link ID 00117, Date 24th, Serial #9, Groups 148. Header: 11177 00117 71495 24009 01489 | FSK 200/500 | (Danix-USA) |
| **F06** | 20072 | 1-2 | 0600 | Wed | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (Danix-J) |
| **F06** | 18291 | 1-2 | 0610 | Wed | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (Danix-J) |
| **F06** | 16071 | 1-2 | 0620 | Wed | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (Danix-J) |
| **F06** | 19654 | 1-2 | 0800 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17461 | 1-2 | 0810 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15869 | 1-2 | 0820 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 19984 | 1-2 | 1000 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 17489 | 1-2 | 1010 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15621 | 1-2 | 1020 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18235 | 1-2 | 1230 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16144 | 1-2 | 1240 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14519 | 1-2 | 1250 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 10383 | 1-2 | 1650 | Wed | Russian diplo/intel. Link ID 20501, Date 30th, Serial #64, Groups 104 | FSK 200/1000 | (AB-RUS/Danix/MPJ) |
| **F06** | 9046 | 1-2 | 1700 | Wed | Russian diplo/intel. Link ID 20501, Date 30th, Serial #64, Groups 104 | FSK 200/1000 | (AB-RUS/Danix/MPJ) |
| **F06** | 7313 | 1-2 | 1710 | Wed | Russian diplo/intel. Link ID 20501, Date 30th, Serial #64, Groups 104 | FSK 200/1000 | (AB-RUS/Danix/MPJ) |
| **F06** | 16321 | 2-2 | 0150 | Thu | Russian diplo/intel. Msg on link 41018 | FSK 200/1000 | (Dan) |
| **F06** | 20072 | 2-2 | 0600 | Thu | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (AB-J/Danix) |
| **F06** | 18291 | 2-2 | 0610 | Thu | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (AB-J/Danix) |
| **F06** | 16071 | 2-2 | 0620 | Thu | Russian diplo/intel. Link ID 32817, Date 28th, Serial #4, Groups 469 | FSK 200/1000 | (AB-J/Danix) |
| **F06** | 12194 | 2-2 | 1340 | Thu | Russian diplo/intel. Null msg on link 49237 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18911 | 4-2 | 1100 | Sat | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16234 | 4-2 | 1110 | Sat | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14426 | 4-2 | 1120 | Sat | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix) |
| **F06** | 22878 | 4-2 | 1500 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (RL/Danix) |
| **F06** | 20216 | 4-2 | 1510 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (RL/Danix) |
| **F06** | 18253 | 4-2 | 1520 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (RL/Danix) |
| **F06** | 18911 | 5-2 | 1100 | Sun | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 16234 | 5-2 | 1110 | Sun | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14426 | 5-2 | 1120 | Sun | Russian diplo/intel. Link ID 36882, Date 3rd, Serial #82, Groups 68 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13464 | 5-2 | 1530 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11548 | 5-2 | 1540 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 9323 | 5-2 | 1550 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 6778 | 6-2 | 0510 | Mon | Russian diplo/intel. Null msg on link 45079 | FSK 200/1000 | (Danix) |
| **F06** | 5126 | 6-2 | 0520 | Mon | Russian diplo/intel. Null msg on link 45079 | FSK 200/1000 | (AB/Danix) |
| **F06** | 12116 | 7-2 | 1500 | Tue | Russian diplo/intel. Null msg on link 16405 | FSK 200/1000 | (Danix) |
| **F06** | 10275 | 7-2 | 1510 | Tue | Russian diplo/intel. Null msg on link 16405 | FSK 200/1000 | (Danix) |
| **F06** | 8176 | 7-2 | 1520 | Tue | Russian diplo/intel. Null msg on link 16405 | FSK 200/1000 | (Danix) |
| **F06** | 13374 | 7-2 | 1650 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (Danix) |
| **F06** | 11165 | 7-2 | 1700 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (Danix) |

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| **F06** | 9219 | 7-2 | 1710 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 9234 | 7-2 | 2300 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (Danix) |
| **F06** | 7819 | 7-2 | 2310 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (Danix) |
| **F06** | 5361 | 7-2 | 2320 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (Danix) |
| **F06** | 20072 | 8-2 | 0600 | Wed | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 18291 | 8-2 | 0610 | Wed | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 16071 | 8-2 | 0620 | Wed | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 19654 | 8-2 | 0800 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17461 | 8-2 | 0810 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15869 | 8-2 | 0820 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20916 | 8-2 | 0900 | Wed | Russian diplo/intel. Link ID 16404, Date 7th, Serial #10, Groups 162 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18730 | 8-2 | 0910 | Wed | Russian diplo/intel. Link ID 16404, Date 7th, Serial #10, Groups 162 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16165 | 8-2 | 0920 | Wed | Russian diplo/intel. Link ID 16404, Date 7th, Serial #10, Groups 162 | FSK 200/1000 | (AB/Danix) |
| **F06** | 19984 | 8-2 | 1000 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 17489 | 8-2 | 1010 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 20639 | 8-2 | 1015 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15621 | 8-2 | 1020 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17539 | 8-2 | 1025 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15644 | 8-2 | 1035 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20072 | 9-2 | 0600 | Thu | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 18291 | 9-2 | 0610 | Thu | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 16071 | 9-2 | 0620 | Thu | Russian diplo/intel. Link ID 32816, Date 4th, Serial #5, Groups 302 and Serial #6, Groups 245 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 20916 | 9-2 | 0900 | Thu | Russian diplo/intel. Message on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18730 | 9-2 | 0910 | Thu | Russian diplo/intel. Message on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16165 | 9-2 | 0920 | Thu | Russian diplo/intel. Message on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14983 | 9-2 | 1330 | Thu | Russian diplo/intel. Null message 49237 | FSK 200/1000 | (Danix) |
| **F06** | 12196 | 9-2 | 1340 | Thu | Russian diplo/intel. Null message 49237 | FSK 200/1000 | (Danix) |
| **F06** | 15638 | 11-2 | 0900 | Sat | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (Danix) |
| **F06** | 13486 | 11-2 | 0910 | Sat | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (Danix) |
| **F06** | 11128 | 11-2 | 0920 | Sat | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (Danix) |
| **F06** | 20894 | 11-2 | 1000 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 18429 | 11-2 | 1010 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/RL/Danix) |
| **F06** | 16153 | 11-2 | 1020 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18911 | 11-2 | 1100 | Sat | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/BvR/Danix) |
| **F06** | 16234 | 11-2 | 1110 | Sat | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/BvR/Danix) |

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| **F06** | 14426 | 11-2 | 1120 | Sat | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/BvR/Danix) |
| **F06** | 22878 | 11-2 | 1500 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 20216 | 11-2 | 1510 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 18253 | 11-2 | 1520 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 15638 | 12-2 | 0900 | Sun | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13486 | 12-2 | 0910 | Sun | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11128 | 12-2 | 0920 | Sun | Russian diplo/intel. Link ID 45114, Date 10th, Serial #49, Groups 228 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20894 | 12-2 | 1000 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 18429 | 12-2 | 1010 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 16153 | 12-2 | 1020 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18911 | 12-2 | 1100 | Sun | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16234 | 12-2 | 1110 | Sun | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14426 | 12-2 | 1120 | Sun | Russian diplo/intel. Link ID 36882, Date 10th, Serial #83, Groups 392 | FSK 200/1000 | (AB/Danix) |
| **F06** | 6984 | 12-2 | 1350 | Sun | Russian diplo/intel. Link ID 00000, Date 10th, Serial #40, Groups 184 | FSK 200/1000 | (Danix) |
| **F06** | 13464 | 12-2 | 1530 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11548 | 12-2 | 1540 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 9323 | 12-2 | 1550 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 12116 | 14-2 | 1500 | Tue | Russian diplo/intel. Link ID 16404, Date 14th, Serial #20, Groups 119 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 10275 | 14-2 | 1510 | Tue | Russian diplo/intel. Link ID 16404, Date 14th, Serial #20, Groups 119 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 8176 | 14-2 | 1520 | Tue | Russian diplo/intel. Link ID 16404, Date 14th, Serial #20, Groups 119 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 13374 | 14-2 | 1650 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB-ISL/Danix/MPJ) |
| **F06** | 11165 | 14-2 | 1700 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 9219 | 14-2 | 1710 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 5361 | 14-2 | 2300 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (AB) |
| **F06** | 9234 | 14-2 | 2300 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (AB) |
| **F06** | 7819 | 14-2 | 2310 | Tue | Russian diplo/intel. Null msg on link 40988 | FSK 200/1000 | (AB) |
| **F06** | 20072 | 15-2 | 0600 | Wed | Russian diplo/intel. Null msg on link 32816 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 18291 | 15-2 | 0610 | Wed | Russian diplo/intel. Null msg on link 32816 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 16071 | 15-2 | 0620 | Wed | Russian diplo/intel. Null msg on link 32816 | FSK 200/1000 | (AB-J/Danix-J) |
| **F06** | 19654 | 15-2 | 0800 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17461 | 15-2 | 0810 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15869 | 15-2 | 0820 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 19984 | 15-2 | 1000 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 17489 | 15-2 | 1010 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 15621 | 15-2 | 1020 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18235 | 15-2 | 1230 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16144 | 15-2 | 1240 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14519 | 15-2 | 1250 | Wed | Russian diplo/intel. Null msg on link 53277 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14983 | 16-2 | 1330 | Thu | Russian diplo/intel. Null message 49237 | FSK 200/1000 | (AB/Danix) |
| **F06** | 12196 | 16-2 | 1340 | Thu | Russian diplo/intel. Null message 49237 | FSK 200/1000 | (AB/Danix) |
| **F06** | 9917 | 16-2 | 1350 | Thu | Russian diplo/intel. Null message 49237 | FSK 200/1000 | (Danix) |
| **F06** | 18911 | 18-2 | 1100 | Sat | Russian diplo/intel. Link ID 36882, Date | FSK 200/1000 | (AB/Danix/MPJ) |

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| | | | | | 17th, Serial #84, Groups 246 | | |
| **F06** | 16234 | 18-2 | 1110 | Sat | Russian diplo/intel. Link ID 36882, Date 17th, Serial #84, Groups 246 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 14426 | 18-2 | 1120 | Sat | Russian diplo/intel. Link ID 36882, Date 17th, Serial #84, Groups 246 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 22878 | 18-2 | 1500 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 20216 | 18-2 | 1510 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 18253 | 18-2 | 1520 | Sat | Russian diplo/intel. Null msg on link 32821 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 18911 | 19-2 | 1100 | Sun | Russian diplo/intel. Link ID 36882, Date 17th, Serial #84, Groups 246 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 16234 | 19-2 | 1110 | Sun | Russian diplo/intel. Link ID 36882, Date 17th, Serial #84, Groups 246 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 14426 | 19-2 | 1120 | Sun | Russian diplo/intel. Link ID 36882, Date 17th, Serial #84, Groups 246 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 13464 | 19-2 | 1530 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 11548 | 19-2 | 1540 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 9323 | 19-2 | 1550 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 7328 | 20-2 | 0500 | Mon | Russian diplo/intel. Null msg on link 45079 | FSK 200/1000 | (Danix) |
| **F06** | 6778 | 20-2 | 0510 | Mon | Russian diplo/intel. Null msg on link 45079 | FSK 200/1000 | (Danix) |
| **F06** | 5126 | 20-2 | 0520 | Mon | Russian diplo/intel. Null msg on link 45079 | FSK 200/1000 | (Danix) |
| **F06** | 12116 | 21-2 | 1500 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 10275 | 21-2 | 1510 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 8176 | 21-2 | 1520 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13374 | 21-2 | 1650 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 11165 | 21-2 | 1700 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 9219 | 21-2 | 1710 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 20072 | 22-2 | 0600 | Wed | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-J) |
| **F06** | 18291 | 22-2 | 0610 | Wed | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-J) |
| **F06** | 16071 | 22-2 | 0620 | Wed | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-J) |
| **F06** | 19654 | 22-2 | 0800 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17461 | 22-2 | 0810 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15869 | 22-2 | 0820 | Wed | Russian diplo/intel. Null msg on link 45075 | FSK 200/1000 | (AB/Danix) |
| **F06** | 19984 | 22-2 | 1000 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17489 | 22-2 | 1010 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20639 | 22-2 | 1015 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix/RL) |
| **F06** | 15621 | 22-2 | 1020 | Wed | Russian diplo/intel. Null msg on link 49202 | FSK 200/1000 | (AB/Danix) |
| **F06** | 17539 | 22-2 | 1025 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15644 | 22-2 | 1035 | Wed | Russian diplo/intel. Null msg on link 20492 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20072 | 23-2 | 0600 | Thu | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 18291 | 23-2 | 0610 | Thu | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 16071 | 23-2 | 0620 | Thu | Russian diplo/intel. Message on link 32817 | FSK 200/1000 | (AB-NZL/Danix) |
| **F06** | 20916 | 23-2 | 0900 | Thu | Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18730 | 23-2 | 0910 | Thu | Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16165 | 23-2 | 0920 | Thu | Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14983 | 23-2 | 1330 | Thu | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 12196 | 23-2 | 1340 | Thu | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 9917 | 23-2 | 1350 | Thu | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (Danix) |
| **F06** | 14983 | 24-2 | 1330 | Fri | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (AB/Danix) |
| **F06** | 12196 | 24-2 | 1340 | Fri | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (AB/Danix) |

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| **F06** | 9917 | 24-2 | 1350 | Fri | Russian diplo/intel. Link ID 49237, Date 22nd, Serial #27, Groups 130 | FSK 200/1000 | (AB/Danix) |
| **F06** | 15638 | 25-2 | 0900 | Sat | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13486 | 25-2 | 0910 | Sat | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11128 | 25-2 | 0920 | Sat | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20894 | 25-2 | 1000 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 18429 | 25-2 | 1010 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 16153 | 25-2 | 1020 | Sat | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18911 | 25-2 | 1100 | Sat | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix) |
| **F06** | 16234 | 25-2 | 1110 | Sat | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix) |
| **F06** | 14426 | 25-2 | 1120 | Sat | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix) |
| **F06** | 22878 | 25-2 | 1500 | Sat | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS) |
| **F06** | 20216 | 25-2 | 1510 | Sat | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS) |
| **F06** | 18253 | 25-2 | 1520 | Sat | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS/MPJ) |
| **F06** | 15638 | 26-2 | 0900 | Sun | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13486 | 26-2 | 0910 | Sun | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11128 | 26-2 | 0920 | Sun | Russian diplo/intel. Link ID 45114, Date 22nd, Serial #50, Groups 116 | FSK 200/1000 | (AB/Danix) |
| **F06** | 20894 | 26-2 | 1000 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 18429 | 26-2 | 1010 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB-RUS/Danix) |
| **F06** | 16153 | 26-2 | 1020 | Sun | Russian diplo/intel. Link ID 45057, Date 10th, Serial #92, Groups 217 | FSK 200/1000 | (AB/Danix) |
| **F06** | 18911 | 26-2 | 1100 | Sun | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 16234 | 26-2 | 1110 | Sun | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 14426 | 26-2 | 1120 | Sun | Russian diplo/intel. Link ID 36882, Date 22nd, Serial #85, Groups 454 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 22878 | 26-2 | 1500 | Sun | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS) |
| **F06** | 20216 | 26-2 | 1510 | Sun | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS) |
| **F06** | 18253 | 26-2 | 1520 | Sun | Russian diplo/intel. Link ID 32821, Date 22nd, Serial #30, Groups 192 | FSK 200/1000 | (AB-RUS/Danix-RUS/RL) |
| **F06** | 13464 | 26-2 | 1530 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix) |
| **F06** | 11548 | 26-2 | 1540 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ/RL) |
| **F06** | 9323 | 26-2 | 1550 | Sun | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 12116 | 28-2 | 1500 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 10275 | 28-2 | 1510 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 8176 | 28-2 | 1520 | Tue | Russian diplo/intel. Null msg on link 16404 | FSK 200/1000 | (AB/Danix) |
| **F06** | 13374 | 28-2 | 1650 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |

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| **F06** | 11165 | 28-2 | 1700 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F06** | 9219 | 28-2 | 1710 | Tue | Russian diplo/intel. Null msg on link 20501 | FSK 200/1000 | (AB/Danix/MPJ) |
| **F11** | 16125 | 1-2 | 0530 | Wed | 0453 88888 88888 14521 66706 06230 ... 69940 76042 55341 88888 88888 00041 00041 | FSK 100/620 | (Danix) |
| **F11** | 16125 | 1-2 | 0535 | Wed | 0453 88888 88888 14521 66706 06230 ... 69940 76042 55341 88888 88888 00041 00041 | FSK 100/620 | (Danix) |
| **F11** | 9370 | 1-2 | 0845 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 1-2 | 0850 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 1-2 | 1150 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 1-2 | 1155 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 1-2 | 1245 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 1-2 | 1250 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 2-2 | 0300 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 2-2 | 0305 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 2-2 | 0515 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 2-2 | 0520 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 2-2 | 0630 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 2-2 | 0635 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 2-2 | 0730 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 2-2 | 0735 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 2-2 | 0800 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 2-2 | 0805 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 3-2 | 0655 | Fri | Polish intel | FSK 100/620 | (AB) |
| **F11** | 9443 | 3-2 | 0700 | Fri | Polish intel | FSK 100/620 | (AB) |
| **F11** | 7499 | 3-2 | 0900 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 3-2 | 0905 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 6-2 | 0515 | Mon | 0446 88888 88888 06908 36523 77303 ... 37408 63540 15373 88888 88888 00037 00037 | FSK 100/620 | (AB) |
| **F11** | 6940 | 6-2 | 0520 | Mon | 0446 88888 88888 06908 36523 77303 ... 37408 63540 15373 88888 88888 00037 00037 | FSK 100/620 | (AB) |
| **F11** | 6836 | 6-2 | 0800 | Mon | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 6-2 | 0805 | Mon | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 6-2 | 0845 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 6-2 | 0850 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 7-2 | 0630 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 7-2 | 0635 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 7-2 | 0655 | Tue | 0684 88888 88888 33830 95858 42066 ... 26907 22213 43122 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 9443 | 7-2 | 0700 | Tue | 0684 88888 88888 33830 95858 42066 ... 26907 22213 43122 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 7499 | 7-2 | 0900 | Tue | 0554 88888 88888 88235 71251 86611 ... 93342 35021 76020 88888 88888 00040 00040 | FSK 100/620 | (AB) |
| **F11** | 7499 | 7-2 | 0905 | Tue | 0554 88888 88888 88235 71251 86611 ... 93342 35021 76020 88888 88888 00040 00040 | FSK 100/620 | (AB) |
| **F11** | 7863 | 7-2 | 1150 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 7-2 | 1155 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 7-2 | 1245 | Tue | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 7-2 | 1250 | Tue | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 8-2 | 0300 | Wed | Polish intel. | FSK 100/620 | (AB) |

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|---|---|---|---|---|---|---|---|
| **F11** | 5831 | 8-2 | 0305 | Wed | Polish intel. | FSK 100/620 | (AB) |
| **F11** | 16125 | 8-2 | 0530 | Wed | 0453 00000 | FSK 100/620 | (AB) |
| **F11** | 16125 | 8-2 | 0535 | Wed | 0453 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 8-2 | 0845 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 8-2 | 0850 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 8-2 | 1150 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 8-2 | 1155 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 8-2 | 1245 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 8-2 | 1250 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 9-2 | 0300 | Thu | Polish intel. | FSK 100/620 | (AB) |
| **F11** | 5831 | 9-2 | 0305 | Thu | Polish intel. | FSK 100/620 | (AB) |
| **F11** | 6940 | 9-2 | 0515 | Thu | 0446 88888 88888 06908 36523 77303 ... 37408 63540 15373 88888 88888 00037 00037 | FSK 100/620 | (AB) |
| **F11** | 6940 | 9-2 | 0520 | Thu | 0446 88888 88888 06908 36523 77303 ... 37408 63540 15373 88888 88888 00037 00037 | FSK 100/620 | (AB) |
| **F11** | 7772 | 9-2 | 0630 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 9-2 | 0635 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 9-2 | 0730 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 9-2 | 0735 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 9-2 | 0800 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 9-2 | 0805 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 10-2 | 0655 | Fri | 0684 88888 88888 33830 95858 42066 ... 26907 22213 43122 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 9443 | 10-2 | 0700 | Fri | 0684 88888 88888 33830 95858 42066 ... 26907 22213 43122 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 7499 | 10-2 | 0900 | Fri | 0554 88888 88888 88235 71251 86611 ... 93342 35021 76020 88888 88888 00040 00040 | FSK 100/620 | (AB) |
| **F11** | 7499 | 10-2 | 0905 | Fri | 0554 88888 88888 88235 71251 86611 ... 93342 35021 76020 88888 88888 00040 00040 | FSK 100/620 | (AB) |
| **F11** | 6940 | 13-2 | 0515 | Mon | 0446 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 6940 | 13-2 | 0520 | Mon | 0446 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 6836 | 13-2 | 0800 | Mon | 0434 88888 88888 88441 91012 04902 ... 38914 58473 01387 88888 88888 00036 00036 | FSK 100/620 | (AB) |
| **F11** | 6836 | 13-2 | 0805 | Mon | 0434 88888 88888 88441 91012 04902 ... 38914 58473 01387 88888 88888 00036 00036 | FSK 100/620 | (AB) |
| **F11** | 9370 | 13-2 | 0845 | Mon | 0353 88888 88888 84988 71932 89108 ... 54932 35563 02174 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 9370 | 13-2 | 0850 | Mon | 0353 88888 88888 84988 71932 89108 ... 54932 35563 02174 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 7772 | 14-2 | 0630 | Tue | 0574 88888 88888 47701 65464 27649 ... 92255 96429 30791 88888 88888 00043 00043 | FSK 100/620 | (AB) |
| **F11** | 7772 | 14-2 | 0635 | Tue | 0574 88888 88888 47701 65464 27649 ... 92255 96429 30791 88888 88888 00043 00043 | FSK 100/620 | (AB) |
| **F11** | 9443 | 14-2 | 0655 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 14-2 | 0700 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 14-2 | 0730 | Tue | 0433 00000 | FSK 100/620 | (AB) |

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|---|---|---|---|---|---|---|---|
| **F11** | 16388 | 14-2 | 0735 | Tue | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 14-2 | 0900 | Tue | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 14-2 | 0905 | Tue | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 14-2 | 1150 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 14-2 | 1155 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 14-2 | 1245 | Tue | 0132 88888 88888 94096 18561 12761 ... 01668 89296 03515 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 17531 | 14-2 | 1250 | Tue | 0132 88888 88888 94096 18561 12761 ... 01668 89296 03515 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 5831 | 15-2 | 0300 | Wed | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 15-2 | 0305 | Wed | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 16125 | 15-2 | 0530 | Wed | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 16125 | 15-2 | 0535 | Wed | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 9370 | 15-2 | 0845 | Wed | 0353 88888 88888 84988 71932 89108 ... 54932 35563 02174 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 9370 | 15-2 | 0850 | Wed | 0353 88888 88888 84988 71932 89108 ... 54932 35563 02174 88888 88888 00041 00041 | FSK 100/620 | (AB) |
| **F11** | 7863 | 15-2 | 1150 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 15-2 | 1155 | Wed | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 15-2 | 1245 | Wed | 0132 88888 88888 94096 18561 12761 ... 01668 89296 03515 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 17531 | 15-2 | 1250 | Wed | 0132 88888 88888 94096 18561 12761 ... 01668 89296 03515 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 5831 | 16-2 | 0300 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 16-2 | 0305 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 16-2 | 0515 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 16-2 | 0520 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 16-2 | 0630 | Thu | 0574 88888 88888 47701 65464 27649 ... 92255 96429 30791 88888 88888 00043 00043 | FSK 100/620 | (AB) |
| **F11** | 7772 | 16-2 | 0635 | Thu | 0574 88888 88888 47701 65464 27649 ... 92255 96429 30791 88888 88888 00043 00043 | FSK 100/620 | (AB) |
| **F11** | 16388 | 16-2 | 0730 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 16-2 | 0735 | Thu | 0433 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 16-2 | 0800 | Thu | 0434 88888 88888 88441 91012 04902 ... 38914 58473 01387 88888 88888 00036 00036 | FSK 100/620 | (AB) |
| **F11** | 6836 | 16-2 | 0805 | Thu | 0434 88888 88888 88441 91012 04902 ... 38914 58473 01387 88888 88888 00036 00036 | FSK 100/620 | (AB) |
| **F11** | 16125 | 17-2 | 0530 | Fri | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 16125 | 17-2 | 0535 | Fri | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 9443 | 17-2 | 0655 | Fri | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 17-2 | 0700 | Fri | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 17-2 | 0900 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 17-2 | 0905 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 20-2 | 0515 | Mon | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 20-2 | 0520 | Mon | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 20-2 | 0800 | Mon | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 20-2 | 0805 | Mon | 0434 00000 | FSK 100/620 | (AB) |

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|---|---|---|---|---|---|---|---|
| **F11** | 9370 | 20-2 | 0845 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 20-2 | 0850 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 21-2 | 0630 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 21-2 | 0635 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 21-2 | 0655 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 21-2 | 0700 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 21-2 | 0730 | Tue | 0433 88888 88888 99198 86380 64080 ... 21004 69477 31031 88888 88888 00038 00038 | FSK 100/620 | (AB) |
| **F11** | 16388 | 21-2 | 0735 | Tue | 0433 88888 88888 99198 86380 64080 ... 21004 69477 31031 88888 88888 00038 00038 | FSK 100/620 | (AB) |
| **F11** | 7499 | 21-2 | 0900 | Tue | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 21-2 | 0905 | Tue | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 21-2 | 1150 | Tue | 0325 88888 88888 16156 08917 24473 ... 52327 14817 78197 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 7863 | 21-2 | 1155 | Tue | 0325 88888 88888 16156 08917 24473 ... 52327 14817 78197 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 17531 | 21-2 | 1245 | Tue | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 21-2 | 1250 | Tue | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 22-2 | 0300 | Wed | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 22-2 | 0305 | Wed | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 16125 | 22-2 | 0530 | Wed | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 16125 | 22-2 | 0535 | Wed | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 9370 | 22-2 | 0845 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 22-2 | 0850 | Wed | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 22-2 | 1150 | Wed | 0325 88888 88888 16156 08917 24473 ... 52327 14817 78197 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 7863 | 22-2 | 1155 | Wed | 0325 88888 88888 16156 08917 24473 ... 52327 14817 78197 88888 88888 00039 00039 | FSK 100/620 | (AB) |
| **F11** | 17531 | 22-2 | 1245 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 17531 | 22-2 | 1250 | Wed | 0132 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 23-2 | 0300 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 5831 | 23-2 | 0305 | Thu | 0231 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 23-2 | 0515 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 23-2 | 0520 | Thu | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 23-2 | 0630 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 23-2 | 0635 | Thu | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 16388 | 23-2 | 0730 | Thu | 0433 88888 88888 99198 86380 64080 ... 21004 69477 31031 88888 88888 00038 00038 | FSK 100/620 | (AB) |
| **F11** | 16388 | 23-2 | 0735 | Thu | 0433 88888 88888 99198 86380 64080 ... 21004 69477 31031 88888 88888 00038 00038 | FSK 100/620 | (AB) |
| **F11** | 6836 | 23-2 | 0800 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 23-2 | 0805 | Thu | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 16125 | 24-2 | 0530 | Fri | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 16125 | 24-2 | 0535 | Fri | 0453 00000 | FSK 100/620 | (AB-POL) |
| **F11** | 9443 | 24-2 | 0655 | Fri | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 24-2 | 0700 | Fri | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 24-2 | 0900 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 24-2 | 0905 | Fri | 0554 00000 | FSK 100/620 | (AB) |
| **F11** | 6940 | 27-2 | 0515 | Mon | 0446 00000 | FSK 100/620 | (AB) |

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|---|---|---|---|---|---|---|---|
| **F11** | 6940 | 27-2 | 0520 | Mon | 0446 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 27-2 | 0800 | Mon | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 6836 | 27-2 | 0805 | Mon | 0434 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 27-2 | 0845 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 9370 | 27-2 | 0850 | Mon | 0353 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 28-2 | 0630 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 7772 | 28-2 | 0635 | Tue | 0574 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 28-2 | 0655 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 9443 | 28-2 | 0700 | Tue | 0684 00000 | FSK 100/620 | (AB) |
| **F11** | 7499 | 28-2 | 0900 | Tue | Not heard at 0900z. Loud at 0905z: 0554 88888 88888 88235 71251 86611 ... 93342 35021 76020 88888 88888 00040 00040 | FSK 100/620 | (AB) |
| **F11** | 7863 | 28-2 | 1150 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **F11** | 7863 | 28-2 | 1155 | Tue | 0325 00000 | FSK 100/620 | (AB) |
| **G06** | 5320 | 6-2 | 0757 | Mon | 329 329 329 00000. Early start | USB | (AB) |
| **G06** | 3516 | 6-2 | 1657 | Mon | 691 691 691 00000 | USB | (AB/HFD) |
| **G06** | 4478 | 6-2 | 1757 | Mon | 691 691 691 00000 | USB | (AB/MPJ) |
| **G06** | 4782 | 8-2 | 1158 | Wed | 691 692 691 00000 | USB | (ES) |
| **G06** | 4057 | 8-2 | 1257 | Wed | 691 691 691 00000 | USB | (AB/ES) |
| **G06** | 4454 | 9-2 | 1257 | Thu | 329 329 329 00000 | USB | (ES-POL) |
| **G06** | 4519 | 9-2 | 1827 | Thu | 271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 | USB | (AB/MPJ/BvR) |
| **G06** | 4792 | 10-2 | 1928 | Fri | 436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000. Windows XP shutdown sound at 1946 UTC | USB | (AB/MPJ) |
| **G06** | 4478 | 13-2 | 1757 | Mon | 691 691 691 00000. Windows XP shutdown sound | USB | (AB/MPJ) |
| **G06** | 5320 | 20-2 | 0758 | Mon | 329 329 329 00000 | USB | (AB) |
| **G06** | 4460 | 23-2 | 1258 | Thu | 329 329 329 00000 | USB | (AB-RUS/ES) |
| **G06** | 4519 | 23-2 | 1826 | Thu | 271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 | USB | (AB) |
| **G06** | 4792 | 24-2 | 1928 | Fri | 436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 | USB | (AB/MPJ) |
| **HM01** | 10345 | 1-2 | 0558 | Wed | 44216 08872 22163 62183 04087 24342 | AM/RDFT | (AB) |
| **HM01** | 11435 | 1-2 | 1611 | Wed | i.p. 44217 08873 22164 62184 04088 24343 | AM/RDFT | (RR2) |
| **HM01** | 10715 | 1-2 | 2157 | Wed | 44217 08873 22164 62184 04088 24343 | AM/RDFT | (RL) |
| **HM01** | 10715 | 1-2 | 2200 | Wed | 44217 08873 22164 62184 04088 24343 | AM/RDFT | (Dan) |
| **HM01** | 11435 | 2-2 | 1556 | Thu | 86381 08874 22165 62185 04089 24344 | AM/RDFT | (RR2) |
| **HM01** | 16180 | 2-2 | 2057 | Thu | 86381 08874 22165 62185 04089 24344 | AM/RDFT | (RL) |
| **HM01** | 16180 | 2-2 | 2100 | Thu | 86381 08874 22165 62185 04089 24344 | AM/RDFT | (Dan) |
| **HM01** | 11435 | 3-2 | 1559 | Fri | 86381 08875 22166 62186 30461 24345 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 3-2 | 2114 | Fri | 86381 08875 22166 62186 30461 24345 | AM/RDFT | (TrW) |
| **HM01** | 10715 | 3-2 | 2157 | Fri | 86381 08875 22166 62186 30461 24345 | AM/RDFT | (RL) |
| **HM01** | 10715 | 3-2 | 2200 | Fri | 86381 08875 22166 62186 30461 24345 | AM/RDFT | (Dan) |
| **HM01** | 11435 | 4-2 | 1559 | Sat | 86382 08876 22167 62187 30461 24346 | AM/RDFT | (RR2) |
| **HM01** | 16180 | 4-2 | 2057 | Sat | 86382 08876 22167 62187 30461 24346 | AM/RDFT | (AB) |
| **HM01** | 10345 | 5-2 | 0557 | Sun | 86382 08876 22167 62187 30461 24346 | AM/RDFT | (AB) |
| **HM01** | 11435 | 5-2 | 1602 | Sun | 86383 08877 22168 62188 30462 24347 | AM/RDFT | (RR2) |
| **HM01** | 10715 | 5-2 | 2200 | Sun | 86383 08877 22168 62188 30462 24347 | AM/RDFT | (Dan) |
| **HM01** | 11435 | 6-2 | 1558 | Mon | i.p. 86384 08878 88671 48551 30463 24348 | AM/RDFT | (RR2) |
| **HM01** | 10715 | 6-2 | 2157 | Mon | 86384 08878 88671 48551 30463 24348 | AM/RDFT | (RL) |
| **HM01** | 10715 | 6-2 | 2200 | Mon | 86384 08878 88671 48551 30463 24348 | AM/RDFT | (Dan) |
| **HM01** | 11462 | 7-2 | 0502 | Tue | 86384 08878 88671 48551 30463 24348 | AM/RDFT | (AB) |
| **HM01** | 11435 | 7-2 | 1603 | Tue | 86385 08879 88671 48551 30464 28701 | AM/RDFT | (RR2) |
| **HM01** | 16180 | 7-2 | 2057 | Tue | 86385 08879 88671 48551 30464 28701 | AM/RDFT | (RL) |

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|---|---|---|---|---|---|---|---|
| **HM01** | 16180 | 7-2 | 2125 | Tue | i.p. | AM/RDFT | (TrW) |
| **HM01** | 17480 | 7-2 | 2157 | Tue | 86385 08879 88671 48551 30464 28701 | AM/RDFT | (RL) |
| **HM01** | 11530 | 8-2 | 1701 | Wed | 86386 46351 88672 48552 30465 28701 | AM/RDFT | (RR2) |
| **HM01** | 10715 | 8-2 | 2157 | Wed | 86386 46351 88672 48552 30465 28701 | AM/RDFT | (RL) |
| **HM01** | 11435 | 9-2 | 1636 | Thu | i.p. 86387 46351 88673 48553 30466 28702 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 9-2 | 2130 | Thu | i.p. | AM/RDFT | (TrW) |
| **HM01** | 16180 | 9-2 | 2145 | Thu | i.p. | AM/RDFT | (TrW) |
| **HM01** | 9330 | 10-2 | 0734 | Fri | i.p. 86387 46351 88673 48553 30466 28702 | AM/RDFT | (MM4) |
| **HM01** | 11435 | 10-2 | 1556 | Fri | i.p. 86388 46352 88674 48554 30467 28703 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 10-2 | 2107 | Fri | i.p. | AM/RDFT | (TrW) |
| **HM01** | 10715 | 10-2 | 2201 | Fri | i.p. 86388 46352 88674 48554 30467 28703 | AM/RDFT | (TrW) |
| **HM01** | 11435 | 11-2 | 1602 | Sat | i.p. 34621 46353 88675 48555 30468 28704 | AM/RDFT | (RR2) |
| **HM01** | 16180 | 11-2 | 2057 | Sat | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (RL) |
| **HM01** | 17480 | 11-2 | 2158 | Sat | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (TrW) |
| **HM01** | 10345 | 12-2 | 0634 | Sun | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (AB) |
| **HM01** | 9330 | 12-2 | 0657 | Sun | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (AB) |
| **HM01** | 9065 | 12-2 | 0757 | Sun | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (AB) |
| **HM01** | 9240 | 12-2 | 0857 | Sun | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (AB) |
| **HM01** | 9155 | 12-2 | 0957 | Sun | 34621 46353 88675 48555 30468 28704 | AM/RDFT | (AB) |
| **HM01** | 11435 | 12-2 | 1600 | Sun | 34621 46354 88676 48556 06301 28705 | AM/RDFT | (RR2) |
| **HM01** | 11435 | 13-2 | 1604 | Mon | 34622 46355 88677 48557 06301 28706 | AM/RDFT | (RR2) |
| **HM01** | 11435 | 14-2 | 1600 | Tue | i.p. 34623 46356 88678 48558 06302 28707 | AM/RDFT | (RR2) |
| **HM01** | 11435 | 15-2 | 1558 | Wed | 34624 46357 88679 48559 06303 27101 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 16-2 | 1756 | Thu | 34625 46358 66861 68251 06304 27101 | AM/RDFT | (DSch) |
| **HM01** | 10345 | 17-2 | 0603 | Fri | i.p. 34625 46358 66861 68251 06304 27101 | AM/RDFT | (AB) |
| **HM01** | 9330 | 17-2 | 0657 | Fri | 34625 46358 66861 68251 06304 27101 | AM/RDFT | (AB) |
| **HM01** | 9065 | 17-2 | 0757 | Fri | 34625 46358 66861 68251 06304 27101 | AM/RDFT | (AB) |
| **HM01** | 9240 | 17-2 | 0857 | Fri | 34625 46358 66861 68251 06304 27101 | AM/RDFT | (AB) |
| **HM01** | 11435 | 17-2 | 1600 | Fri | 34625 46358 66861 68251 06304 27101 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 17-2 | 1830 | Fri | i.p. 34626 46359 06861 68251 06305 27102 | AM/RDFT | (DSch) |
| **HM01** | 11435 | 18-2 | 1601 | Sat | 34627 40641 66862 68252 06306 27103 | AM/RDFT | (RR2) |
| **HM01** | 11530 | 18-2 | 1658 | Sat | 34626 46359 66861 68251 06305 27102 | AM/RDFT | (RR2) |
| **HM01** | 11435 | 19-2 | 1603 | Sun | 34628 40641 66863 68253 06307 27104 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 19-2 | 2057 | Sun | 34628 40641 66863 68253 02307 27104 | AM/RDFT | (RL) |
| **HM01** | 11635 | 19-2 | 2128 | Sun | i.p. 34628 40641 66863 68253 06307 27104 | AM/RDFT | (DSch) |
| **HM01** | 10715 | 19-2 | 2157 | Sun | 34628 40641 66863 68253 02307 27104 | AM/RDFT | (RL) |
| **HM01** | 11435 | 20-2 | 1600 | Mon | 84431 40642 66864 68254 06308 27105 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 20-2 | 1827 | Mon | 84431 40642 66864 68254 06308 27105 | AM/RDFT | (DSch) |
| **HM01** | 10715 | 20-2 | 2157 | Mon | 84431 40642 66864 68254 06308 27105 | AM/RDFT | (RL) |
| **HM01** | 11435 | 21-2 | 1601 | Tue | 84431 40643 66865 68255 06309 27106 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 21-2 | 1830 | Tue | 84431 40643 66865 68255 06309 27106 | AM/RDFT | (DSch) |
| **HM01** | 10715 | 21-2 | 2157 | Tue | 84432 40644 66866 68256 73631 27107 | AM/RDFT | (RL) |
| **HM01** | 17480 | 21-2 | 2157 | Tue | 84431 40643 66865 68255 06309 27106 | AM/RDFT | (RL) |
| **HM01** | 11435 | 22-2 | 1600 | Wed | 84432 40644 66866 68256 73631 27107 | AM/RDFT | (RR2) |
| **HM01** | 10715 | 22-2 | 2200 | Wed | 84432 40644 66866 68256 73631 27107 | AM/RDFT | (Dan) |
| **HM01** | 10715 | 22-2 | 2241 | Wed | 84432 40644 66866 68256 73631 27107 | AM/RDFT | (DSch) |
| **HM01** | 11435 | 23-2 | 1557 | Thu | 84433 40645 66867 68257 73631 27108 | AM/RDFT | (RR2) |

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|---|---|---|---|---|---|---|---|
| **HM01** | 11530 | 23-2 | 1656 | Thu | 84433 40645 66867 68257 73631 27108 | AM/RDFT | (DSch) |
| **HM01** | 17480 | 23-2 | 2157 | Thu | 84433 40645 66867 68257 73631 27108 | AM/RDFT | (RL) |
| **HM01** | 17480 | 23-2 | 2300 | Thu | 84433 40645 66867 68257 73631 27108 | AM/RDFT | (Dan) |
| **HM01** | 11635 | 24-2 | 1821 | Fri | 84434 40646 66868 78651 73632 88401 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 24-2 | 2126 | Fri | i.p. 84434 40646 66868 78651 73632 88401 | AM/RDFT | (DSch) |
| **HM01** | 11435 | 25-2 | 1603 | Sat | 84435 40647 33831 78651 73633 88401 | AM/RDFT | (RR2) |
| **HM01** | 16180 | 25-2 | 2057 | Sat | 84435 40647 33831 78651 73633 88401 | AM/RDFT | (RL) |
| **HM01** | 11635 | 25-2 | 2135 | Sat | i.p. 84434 40646 66868 78651 73632 88401 stopped at 1840z | AM/RDFT | (DSch) |
| **HM01** | 17480 | 25-2 | 2157 | Sat | 84435 40647 33831 78651 73633 88401 | AM/RDFT | (RL) |
| **HM01** | 11435 | 26-2 | 1555 | Sun | 84436 52511 33831 78652 73634 88402 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 26-2 | 1828 | Sun | i.p. 84436 52511 33831 78652 73634 88402 | AM/RDFT | (DSch) |
| **HM01** | 11435 | 27-2 | 1606 | Mon | 84437 52511 33832 78653 73635 88403 | AM/RDFT | (RR2) |
| **HM01** | 11530 | 27-2 | 1757 | Mon | 84437 52511 33832 78653 73635 88403 | AM/RDFT | (BW3) |
| **HM01** | 10715 | 27-2 | 2200 | Mon | 84437 52511 33832 78653 73635 88403 | AM/RDFT | (Dan) |
| **HM01** | 11435 | 28-2 | 1602 | Tue | 53361 52512 33833 78654 73636 88404 | AM/RDFT | (RR2) |
| **HM01** | 11635 | 28-2 | 1807 | Tue | 53261 52512 33833 78654 73636 88404 | AM/RDFT | (DSch) |
| **HM01** | 16180 | 28-2 | 2100 | Tue | 53361 52512 33833 78654 73636 88404 | AM/RDFT | (Dan) |
| **HM01** | 17480 | 28-2 | 2157 | Tue | 53361 52512 33833 78654 73636 88404 | AM/RDFT | (RL) |
| **HM02** | 4761 | 1-2 | 0520 | Wed | 259 46 = 76653 27710 45881 ... 75xxx xx489 25445 = 259 46 259 46 = repeats message = 259 46 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 2-2 | 0520 | Thu | Carrier only | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 3-2 | 0520 | Fri | 971 43 = 83041 54648 23868 ... 40758 23307 48752 = 971 43 971 43 = repeats message = 971 43 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 5-2 | 0520 | Sun | 811 48 = 71656 33062 57627 ... 58487 44382 03886 = 811 48 811 48 = repeats message = 811 48 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 7-2 | 0518 | Tue | UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI UACFI | FSK 200/129 | (AB) |
| **HM02** | 4761 | 7-2 | 0520 | Tue | 956 53 = 90047 83793 08293 ... 73967 43528 72524 = 956 53 956 53 = repeats message = 956 53 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 9-2 | 0520 | Thu | 791 52 = 65036 32320 46523 ... 63077 78206 77068 = 791 52 791 52 = repeats message = 791 52 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 10-2 | 0520 | Fri | 238 48 = 12649 08179 48307 ... 08862 78314 50613 = 238 48 238 48 = repeats message = 238 48 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 11-2 | 0520 | Sat | 173 44 = 12649 08179 48307 ... 14015 31639 06868 = 173 44 173 44 = repeats message = 173 44 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 13-2 | 0520 | Mon | 829 47 = 48703 74616 56486 ... 57720 01621 03618 = 829 47 829 47 = repeats message = 829 47 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 14-2 | 0520 | Tue | 917 42 = 80278 32241 23181 ... 71384 54377 43673 = 917 42 917 42 = repeats message = 917 42 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 15-2 | 0520 | Wed | 459 47 = 60572 86064 55285 ... 04062 16056 56743 = 459 47 459 47 = repeats message = 459 47 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 16-2 | 0520 | Thu | 357 43 = 89082 49912 46279 ... 48723 36971 55874 = 357 43 357 43 = repeats | FSK-19.8bd/129Hz/FSK- | (AB/BR) |

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|---|---|---|---|---|---|---|---|
| | | | | | message = 357 43 000 | CW | |
| **HM02** | 4761 | 17-2 | 0520 | Fri | 928 44 = 42127 83415 16117 ... 81456 54141 72255 = 928 44 928 44 = repeats message = 928 44 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 18-2 | 0520 | Sat | 912 42 = 80278 32241 23181 ... 71384 54377 43673 = 912 42 912 42 = repeats message = 912 42 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 19-2 | 0520 | Sun | 242 44 = 80278 32241 23181 ... 43673 23456 12876 = 242 44 242 44 = repeats message = 242 44 000 | FSK-19.8bd/129Hz/FSK-CW | (BR) |
| **HM02** | 4761 | 20-2 | 0520 | Mon | 257 42 = 03400 32973 77141 ... 66667 42792 15139 = 257 42 257 42 = repeats message = 257 42 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 21-2 | 0520 | Tue | 965 47 = 77643 58643 84101 ... 82358 76788 57037 = 965 47 965 47 = repeats message = 965 47 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 21-2 | 0529 | Tue | Sends the FSK intro again, then off | FSK-19.8bd/129Hz | (AB) |
| **HM02** | 4761 | 22-2 | 0520 | Wed | 671 43 = 80695 76781 74157 ... 90023 16668 32620 = 671 43 671 43 = repeats message = 671 43 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 23-2 | 0520 | Thu | 649 49 = 05873 02306 76395 ... 10652 06416 41110 = 649 49 649 49 = repeats message = 649 49 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 24-2 | 0520 | Fri | 873 44 = 80695 76781 74157 ... 16668 32620 92667 = 873 44 873 44 = repeats message = 873 44 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 25-2 | 0520 | Sat | 417 50 = 33968 76862 34584 ... 42464 80031 50866 = 417 50 417 50 = repeats message = 417 50 000 | FSK-19.8bd/129Hz/FSK-CW | (AB) |
| **HM02** | 4761 | 26-2 | 0520 | Sun | 256 48 = 12649 08179 48307 ... 08862 78314 50613 = 256 48 256 48 = repeats message = 256 48 No 000 sent | FSK-19.8bd/129Hz/FSK-CW | (BR) |
| **HM02** | 4761 | 27-2 | 0520 | Mon | 659 47 = 98808 88906 51456 ... 25496 63971 13570 = 659 47 659 47 = repeats message = 659 47 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **HM02** | 4761 | 28-2 | 0520 | Tue | 294 48 = 12649 08179 48307 ... 08862 78314 50613 = 294 48 294 48 = repeats message = 294 48 000 | FSK-19.8bd/129Hz/FSK-CW | (AB/BR) |
| **Jammer** | 9921 | 18-2 | 1304 | Sat | Vietnamese Siren jammer | | (ES-PHL) |
| **M01** | 5320 | 2-2 | 1800 | Thu | 197 504 30 = = 10911 6356 35656912002 91222 32592 17218 0998. 50100 ... 36111 62757 75661 40758 .... = = 504 30 000. A total mess | CW | (MPJ) |
| **M01** | 4490 | 2-2 | 2000 | Thu | 722 30 = = 55978 72645 76101 45847 81373 ... 60699 17235 02402 06471 26119 = = 722 30 000 | CW | (MPJ) |
| **M01** | 2655 | 3-2 | 2002 | Fri | 866 ... //3195 kHz | MCW | (AB) |
| **M01** | 3195 | 3-2 | 2002 | Fri | 866 ... //2655 kHz | MCW | (AB) |
| **M01** | 3520 | 6-2 | 1910 | Mon | 853 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M01** | 3205 | 6-2 | 2015 | Mon | 375 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M01** | 5320 | 7-2 | 1800 | Tue | 197 745 30 = = 10887 58300 47684 63367 34584 ... 16453 240.6 (unreadable) | CW | (MPJ) |
| **M01** | 4490 | 7-2 | 2000 | Tue | 197 235 03 = = 49676 0.811 80315 20231 31874 ... 03784 61783 55887 40393 52110 = = 235 30 000 | CW | (MPJ) |

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|---|---|---|---|---|---|---|---|
| **M01** | 5320 | 9-2 | 1800 | Thu | 197 864 30 = = 10800 45743 544.2 75187 08569 ... 98119 32605 60114 17345 54357 = = 864 30 000 | CW | (MPJ) |
| **M01** | 5810 | 11-2 | 1500 | Sat | 197 | CW | (HFD) |
| **M01** | 5464 | 12-2 | 0700 | Sun | 197 (R) 234 234 30 30 = = 89714 07120 28143 ... 51878 34790 74210 = = 234 234 30 30 000 | CW | (AB) |
| **M01** | 3520 | 13-2 | 1810 | Mon | Carrier only. No traffic | MCW | (MPJ) |
| **M01** | 3205 | 13-2 | 2015 | Mon | Carrier only. No traffic. | MCW | (MPJ) |
| **M01** | 5320 | 14-2 | 1800 | Tue | 197 (R) 391 391 30 30 = = 59096 96830 62701 ... 54375 35848 05480 = = 391 391 30 30 000 | CW | (AB/MPJ) |
| **M01** | 4490 | 14-2 | 2000 | Tue | 197 (R) 525 525 30 30 = = 19704 36433 94916 ... 94499 89499 59541 = = 525 525 30 30 000 | CW | (AB/MPJ) |
| **M01** | 5320 | 16-2 | 1800 | Thu | 197 236 30 = = 60906 71883 97165 17240 61199 ... | CW | (MPJ) |
| **M01** | 4490 | 16-2 | 2000 | Thu | 197 392 30 = = 16686 51436 47242 18138 20402 ... 19447 85052 53476 21498 17983 = = 392 30 000 | CW | (MPJ) |
| **M01** | 5810 | 18-2 | 1500 | Sat | 197 621 30 = 78009 34245 67545 ... 81022 89211 32456 621 30 000 | CW | (ES-POL) |
| **M01** | 5320 | 21-2 | 1800 | Tue | 197 126 30 = = 60394 73597 33363 39334 98443 ... 84279 38405 83419 18918 25899 = = 126 30 000 | CW | (F5JBR) |
| **M01** | 5320 | 21-2 | 1809 | Tue | i.p. 05 83419 18918 25899 = = 126 30 126 30 000 | CW | (AB) |
| **M01** | 4490 | 21-2 | 2000 | Tue | 197 404 30 = = 33113 52290 57152 35120 63930 ... 16180 55045 90482 77615 57433 = = 404 30 000 | CW | (F5JBR) |
| **M01** | 5320 | 23-2 | 1800 | Thu | 197 404 30 = = 33113 52290 57152 35120 63930 ... 16180 45045 90482 77615 57433 = = 404 30 000 | CW | (MPJ) |
| **M01** | 5320 | 23-2 | 1800 | Thu | 197 404 30 = 33113 52290 57152 ... 77615 57433 = 404 30 000 many errors | CW | (AB) |
| **M01** | 4490 | 23-2 | 2000 | Thu | 197 986 30 = = 32113 38327 57283 12117 44034 ... 09934 90934 90818 90934 90818 = = = 197 30 000 | CW | (MPJ) |
| **M01** | 5810 | 25-2 | 1500 | Sat | 197 118 30 = 91712 79784 ... 118 30 = 000 | CW | (ES) |
| **M01** | 5320 | 28-2 | 1800 | Tue | 197 631 30 = = 99705 79939 36672 94353 68892 ... 38250 85082 78709 51955 96026 = = 631 30 000 | CW | (MPJ) |
| **M01** | 4490 | 28-2 | 2000 | Tue | 197 633 30 = = 85667 36473 31300 19869 04392 ... 77.43 02746 26862 15237 = = 633 30 000 | CW | (MPJ) |
| **M01a** | 4907 | 14-2 | 1314 | Tue | i.p. 13769 62840 89100 87875 11044 64707 27074 68211 31667 41934 36472 90414 = = 328 328 35 35 000 | CW | (F5JBR) |
| **M01a** | 4907 | 14-2 | 1324 | Tue | 162 162 162 687 82 687 82 111 162 162 162 687 88 687 88 111 999 329 55 340 340 35 35 = = 16603 90545 63812 91818 03059 ... | CW | (F5JBR) |
| **M01a** | 4907 | 14-2 | 1350 | Tue | 513 513 513 363 67 363 67 513 513 513 363 67 363 67 513 513 513 363 67 363 67 | CW | (F5JBR) |
| **M01a** | 4899 | 14-2 | 1400 | Tue | 231 231 231 231 231 231 111 | CW | (F5JBR) |
| **M01a** | 4916 | 14-2 | 1407 | Tue | 231 231 231 231 231 231 111 | CW | (F5JBR) |
| **M01a** | 4899 | 14-2 | 1408 | Tue | 839 839 839 657 10 111 | CW | (F5JBR) |
| **M01a** | 4514 | 14-2 | 1424 | Tue | 459 459 459 433 16 433 16 459 459 459 | CW | (F5JBR) |

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|---|---|---|---|---|---|---|---|
| | | | | | 434 68 434 68 040 02 333 00 459 459 459 333 00 ... | | |
| **M01a** | 4404 | 14-2 | 1439 | Tue | 455 455 455 460 90 460 90 111 000 333 569 31 040 02 455 111 000 111 000 455 | CW | (F5JBR) |
| **M01a** | 4502 | 14-2 | 1523 | Tue | 190 190 190 241 29 241 29 190 190 190 240 49 240 49 190 190 190 236 59 236 59 ... | CW | (F5JBR) |
| **M01a** | 3223 | 14-2 | 1741 | Tue | 257 257 257 791 88 791 88 257 257 257 792 97 792 97 | CW | (F5JBR) |
| **M01a** | 2726 | 14-2 | 1822 | Tue | 892 892 892 | CW | (F5JBR) |
| **M01a** | 2166 | 14-2 | 1826 | Tue | 236 236 236 196 96 196 96 236 236 236 196 74 196 74 040 01 236 236 236 184 04 184 04 236 236 236 040 01 | CW | (F5JBR) |
| **M01a** | 2142 | 14-2 | 1906 | Tue | 245 245 245 740 91 740 91 245 245 245 740 37 740 37 245 245 245 752 77 | CW | (F5JBR) |
| **M01a** | 2165 | 14-2 | 1910 | Tue | 333 474 21 333 474 21 333 474 21 040 02 040 02 333 473 21 111 333 154 | CW | (F5JBR) |
| **M01a** | 2468 | 14-2 | 1950 | Tue | 496 496 496 811 12 811 12 333 811 13 333 811 13 111 000 | CW | (F5JBR) |
| **M01a** | 2468 | 14-2 | 2047 | Tue | 496 496 496 816 53 816 53 496 496 496 811 73 811 73 496 496 496 819 93 819 93 | CW | (F5JBR) |
| **M01a** | 4382 | 14-2 | 2130 | Tue | 389 389 389 499 53 499 53 389 389 389 490 24 490 24 389 389 389 491 85 491 85 | CW | (F5JBR) |
| **M01a** | 4907 | 15-2 | 0620 | Wed | i.p. 13467 58944 0649 55738 = 345 20 000 | CW | (F5JBR) |
| **M01a** | 2415 | 15-2 | 0625 | Wed | i.p. 16755 16755 16755 859 and 111 999 and 246 12 = 37843 63606 19741 ... 61744 19938 34870 = 246 12 000 | CW | (F5JBR) |
| **M01a** | 4957 | 15-2 | 0646 | Wed | 513 513 513 361 51 361 51 111 999 346 35 = 54011 25286 96137 ... 81865 13706 15401 = 346 35 000 | CW | (F5JBR) |
| **M01a** | 3380 | 15-2 | 0728 | Wed | 647 647 647 467 88 467 88 | CW | (F5JBR) |
| **M01a** | 3643 | 15-2 | 0734 | Wed | 104 104 104 379 74 379 74 104 104 104 373 93 373 93 | CW | (F5JBR) |
| **M01a** | 5273 | 15-2 | 0757 | Wed | i.p. = 347 35 000 and 111 333 00 and 347 35 000 | CW | (F5JBR) |
| **M01a** | 5812 | 15-2 | 0800 | Wed | 870 870 870 992 81 992 81 111 | CW | (F5JBR) |
| **M01a** | 2317 | 15-2 | 1830 | Wed | 257 257 257 299 75 299 75 257 257 257 285 81 285 81 333 111 040 02 ... | CW | (F5JBR) |
| **M01a** | 2227 | 15-2 | 1835 | Wed | i.p. 236 24 111 000 111 000 111 333 555 255 11 265 11 236 24 236 24 000 | CW | (F5JBR) |
| **M01a** | 5317 | 16-2 | 1424 | Thu | 273 273 273 909 42 909 42 040 04 | CW | (F5JBR) |
| **M01a** | 4753 | 16-2 | 1459 | Thu | 918 918 918 040 2 333 982 03 333 982 03 333 111 999 384 15 = ... | CW | (F5JBR) |
| **M01a** | 3361 | 16-2 | 1648 | Thu | 349 349 349 202 56 202 56 333 349 333 349 333 349 299 63 299 63 111 000 | CW | (F5JBR) |
| **M01a** | 2722 | 16-2 | 1818 | Thu | 593 593 593 332 54 332 54 | CW | (F5JBR) |
| **M01a** | 3943 | 19-2 | 0542 | Sun | i.p. 111 111 000 111 111 000 | CW | (F5JBR) |
| **M01a** | 2539 | 21-2 | 0501 | Tue | i.p. 66145 87224 17103 43761 83708 83319 26342 04989 52150 4980 21073 = 243 74 000 | CW | (F5JBR) |
| **M01a** | 7485 | 22-2 | 1302 | Wed | 273 (x3) 668 75 668 75 333 650 57 650 57 333 650 57 650 57 111 000 | CW | (F5JBR) |
| **M01a** | 7485 | 22-2 | 1330 | Wed | 273 (x3) 170 92 170 92 333 177 22 177 22 111 000 | CW | (F5JBR) |
| **M01a** | 7485 | 22-2 | 1345 | Wed | 273 (x3) 175 82 175 82 333 179 11 17911 333 177 10 177 10 111 000 | CW | (F5JBR) |
| **M01a** | 7485 | 22-2 | 1401 | Wed | 273 (x3) 175 83 175 83 111 999 and 689 19 = 78737 08410 89755 19795 ... | CW | (F5JBR) |

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|---|---|---|---|---|---|---|---|
| **M01a** | 3807 | 23-2 | 0721 | Thu | 162 (x3) 293 73 (x3) 162 (x3) 207 13 (x2) 111 000 | CW | (F5JBR) |
| **M01a** | 5018 | 25-2 | 1000 | Sat | 603 603 603 904 22 904 22 | CW | (F5JBR-J) |
| **M01b** | 2470 | 2-2 | 1932 | Thu | 910 531 30 = = 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 = = 531 30 000 //3545 kHz | MCW | (MPJ) |
| **M01b** | 3545 | 2-2 | 1932 | Thu | 910 531 30 = = 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 = = 531 30 000 //2470 kHz | MCW | (MPJ) |
| **M01b** | 2485 | 2-2 | 2042 | Thu | 382 531 30 = = 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 = = 531 30 000 //3160 kHz | MCW | (MPJ) |
| **M01b** | 3160 | 2-2 | 2042 | Thu | 382 531 30 = = 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 = = 531 30 000 //2485 kHz | MCW | (MPJ) |
| **M01b** | 2470 | 9-2 | 1932 | Thu | 910 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //3545 kHz | MCW | (MPJ) |
| **M01b** | 3545 | 9-2 | 1932 | Thu | 910 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //2470 kHz | MCW | (MPJ) |
| **M01b** | 4490 | 9-2 | 2000 | Thu | 197 648 30 = = 30194 26864 56020 63682 55804 ... 74227 94273 45437 94215 60831 = = 648 30 000 | CW | (MPJ) |
| **M01b** | 2485 | 9-2 | 2042 | Thu | 382 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //3160 kHz | MCW | (MPJ) |
| **M01b** | 3160 | 9-2 | 2042 | Thu | 382 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //2485 kHz | MCW | (MPJ) |
| **M01b** | 2655 | 10-2 | 2002 | Fri | 866 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //3196 kHz | MCW | (MPJ) |
| **M01b** | 3196 | 10-2 | 2002 | Fri | 866 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //2655 kHz | MCW | (MPJ) |
| **M01b** | 3545 | 16-2 | 1932 | Thu | 910 327 32 = = 18273 87203 .6876 87673 ... 83165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M01b** | 2485 | 16-2 | 2050 | Thu | Carrier only both freqs /3160 kHz | MCW | (MPJ) |
| **M01b** | 3160 | 16-2 | 2050 | Thu | Carrier only both freqs //2485 kHz | MCW | (MPJ) |
| **M01b** | 2435 | 20-2 | 1910 | Mon | 853 327 32 8273 //3520 | CW | (HFD) |
| **M01b** | 3520 | 20-2 | 1910 | Mon | 853 327 32 8273 //2435 | CW | (HFD) |
| **M01b** | 3520 | 20-2 | 1910 | Mon | 853 327 32 = = 18273 87203 96876 87673 19725 ... 58422 49107 78625 84165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M01b** | 2425 | 20-2 | 2015 | Mon | 375 327 32 = = 18273 87203 96876 87673 19725 ... 58422 49107 78625 84165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M01b** | 2485 | 23-2 | 2042 | Thu | 382 327 32 = = 18273 87203 ... //3160 kHz | MCW | (MPJ) |
| **M01b** | 3160 | 23-2 | 2042 | Thu | 382 327 32 = = 18273 87203 ... //2485 kHz | MCW | (MPJ) |
| **M01b** | 2655 | 24-2 | 2002 | Fri | 866 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //3195 kHz | MCW | (MPJ) |
| **M01b** | 3195 | 24-2 | 2002 | Fri | 866 327 32 = = 18273 87203 96876 87673 19668 ... 58422 49107 78625 84165 19725 = = 327 32 000 //2655 kHz | MCW | (MPJ) |
| **M01b** | 3520 | 27-2 | 1910 | Mon | 853 327 32 18273 87303 96876 87672 19658 ... 58422 49107 78625 84165 19725 | MCW | (MPJ) |

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|---|---|---|---|---|---|---|---|
| | | | | | = = 327 32 000 | | |
| **M01b** | 3205 | 27-2 | 2015 | Mon | 375 327 32 18273 87303 96876 87672 19658 ... 58422 49107 78625 84165 19725 = = 327 32 000 | MCW | (MPJ) |
| **M08a** | 8097 | 15-2 | 1400 | Wed | 12345 67890 | CW | (Danix-USA) |
| **M08a** | 8097 | 15-2 | 1400 | Wed | 12345 67890 | CW | (Danix-USA) |
| **M08a** | 8010 | 15-2 | 2300 | Wed | 12345 67890 | CW | (Danix-USA) |
| **M08a** | 8097 | 15-2 | 2300 | Wed | 12345 67890 | CW | (Danix-USA) |
| **M08a** | 8136 | 26-2 | 2254 | Sun | ANDUW RIGMT (12345 67890) Early start | CW | (Sha) |
| **M12** | 13362 | 1-2 | 1400 | Wed | 353 353 353 000 | CW | (ES) |
| **M12** | 11562 | 1-2 | 1420 | Wed | 353 353 353 000 | CW | (ES) |
| **M12** | 5429 | 1-2 | 2200 | Wed | 460 460 460 000 | CW | (AB/HFD) |
| **M12** | 4629 | 1-2 | 2220 | Wed | 460 460 460 000 | CW | (AB/RL/HFD) |
| **M12** | 13569 | 2-2 | 1010 | Thu | 582 582 582 000 | CW | (AB/ES/HFD) |
| **M12** | 14869 | 2-2 | 1030 | Thu | 582 582 582 000 | CW | (AB/ES/HFD) |
| **M12** | 9162 | 2-2 | 1310 | Thu | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (ES/HFD) |
| **M12** | 8062 | 2-2 | 1330 | Thu | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (ES/HFD) |
| **M12** | 7462 | 2-2 | 1350 | Thu | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (ES/AB/JPL-NZL/MPJ/HFD) |
| **M12** | 13386 | 3-2 | 1230 | Fri | 725 1 3499 74 05347 48386 66178 ... 53391 18950 23116 000 000 | CW | (ES) |
| **M12** | 12189 | 3-2 | 1250 | Fri | 725 1 3499 74 05347 48386 66178 ... 53391 18950 23116 000 000 | CW | (ES) |
| **M12** | 11491 | 3-2 | 1310 | Fri | 725 1 3499 74 05347 48386 66178 ... 53391 18950 23116 000 000 | CW | (ES) |
| **M12** | 7637 | 4-2 | 0600 | Sat | 612 612 612 000 | CW | (AB/ES/HFD) |
| **M12** | 9137 | 4-2 | 0620 | Sat | 612 612 612 000 | CW | (AB/ES/HFD) |
| **M12** | 9162 | 4-2 | 1310 | Sat | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (AB/MPJ/ES/HFD) |
| **M12** | 8062 | 4-2 | 1330 | Sat | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (AB/MPJ/ES/HFD) |
| **M12** | 7462 | 4-2 | 1350 | Sat | 104 1 6559 123 85872 97136 ..... 93214 12684 000 000 | CW | (AB/MPJ/ES/HFD) |
| **M12** | 13569 | 5-2 | 1010 | Sun | 582 582 582 000 | CW | (AB) |
| **M12** | 14869 | 5-2 | 1030 | Sun | 582 582 582 000 | CW | (AB) |
| **M12** | 13362 | 6-2 | 1400 | Mon | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 Stops after 24 groups, restarts and commences with group 15 | CW | (AB/MPJ) |
| **M12** | 11562 | 6-2 | 1420 | Mon | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 | CW | (AB) |
| **M12** | 10362 | 6-2 | 1440 | Mon | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 | CW | (AB) |
| **M12** | 6937 | 6-2 | 2210 | Mon | 975 975 975 000 | CW | (AB/SP1/RL) |
| **M12** | 5737 | 6-2 | 2230 | Mon | 975 975 975 000 | CW | (AB/RL) |
| **M12** | 13362 | 8-2 | 1400 | Wed | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 | CW | (AB/MPJ/ES) |
| **M12** | 11562 | 8-2 | 1420 | Wed | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 | CW | (AB/MPJ/ES) |
| **M12** | 10362 | 8-2 | 1440 | Wed | 353 1 4487 91 41649 62887 98442 ... 97638 31689 84308 000 000 | CW | (AB/ES) |
| **M12** | 8047 | 8-2 | 1900 | Wed | 463 1 | CW | (HFD) |
| **M12** | 6802 | 8-2 | 1920 | Wed | 463 1 | CW | (HFD) |
| **M12** | 5788 | 8-2 | 1940 | Wed | 463 1 | CW | (HFD) |
| **M12** | 5429 | 8-2 | 2200 | Wed | 460 1 800 67 69908 30370 13252 ... 62692 | CW | (AB) |

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|---|---|---|---|---|---|---|---|
| | | | | | 11882 37587 000 000 | | |
| **M12** | 4629 | 8-2 | 2220 | Wed | 460 1 800 67 69908 30370 13252 ... 62692 11882 37587 000 000 | CW | (AB) |
| **M12** | 4029 | 8-2 | 2240 | Wed | 460 1 800 67 69908 30370 13252 ... 62692 11882 37587 000 000 | CW | (AB) |
| **M12** | 13569 | 9-2 | 1010 | Thu | 582 582 582 000 | CW | (AB/ES) |
| **M12** | 14869 | 9-2 | 1030 | Thu | 582 582 582 000 | CW | (AB/ES) |
| **M12** | 9162 | 9-2 | 1310 | Thu | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 8062 | 9-2 | 1330 | Thu | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 7637 | 11-2 | 0600 | Sat | 612 1 800 67 69908 30370 13252 ... 62692 11882 37587 000 000 | CW | (AB/ES) |
| **M12** | 9137 | 11-2 | 0620 | Sat | 612 1 800 67 69908 30370 13252 ... 62692 11882 37587 000 000 | CW | (AB/ES) |
| **M12** | 10237 | 11-2 | 0640 | Sat | 612 1 800 67 69908 30370 13252 ... 62692 11882 37587 000 000 | CW | (AB/ES) |
| **M12** | 9162 | 11-2 | 1310 | Sat | 104 104 104 000 | CW | (AB/MPJ) |
| **M12** | 8062 | 11-2 | 1330 | Sat | 104 104 104 000 | CW | (AB/BvR/MPJ) |
| **M12** | 13569 | 12-2 | 1010 | Sun | 582 582 582 000 | CW | (AB/SP1/BvR) |
| **M12** | 14869 | 12-2 | 1030 | Sun | 582 582 582 000 | CW | (AB/BvR) |
| **M12** | 13362 | 13-2 | 1400 | Mon | 353 1 2643 135 60339 99655 88292 ... 80000 83226 90440 000 000 | CW | (AB) |
| **M12** | 11562 | 13-2 | 1420 | Mon | 353 1 2643 135 60339 99655 88292 ... 80000 83226 90440 000 000 | CW | (AB) |
| **M12** | 10362 | 13-2 | 1440 | Mon | 353 1 2643 135 60339 99655 88292 ... 80000 83226 90440 000 000 | CW | (AB) |
| **M12** | 6937 | 13-2 | 2210 | Mon | 975 975 975 000 | CW | (AB/SP1) |
| **M12** | 5737 | 13-2 | 2230 | Mon | 975 975 975 000 | CW | (AB) |
| **M12** | 13362 | 15-2 | 1400 | Wed | 353 353 353 000 | CW | (AB/MPJ/ES) |
| **M12** | 11562 | 15-2 | 1420 | Wed | 353 353 353 000 | CW | (AB/MPJ/ES) |
| **M12** | 6904 | 15-2 | 1733 | Wed | 257 1 8364 81 97396 27691 76484 ... 21532 54897 32769 000 000 | CW | (F5JBR) |
| **M12** | 5429 | 15-2 | 2200 | Wed | 460 460 460 000 | CW | (AB) |
| **M12** | 4629 | 15-2 | 2220 | Wed | 460 460 460 000 | CW | (AB) |
| **M12** | 13569 | 16-2 | 1010 | Thu | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB/ES) |
| **M12** | 14869 | 16-2 | 1030 | Thu | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB/ES) |
| **M12** | 16269 | 16-2 | 1050 | Thu | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB/ES) |
| **M12** | 9162 | 16-2 | 1310 | Thu | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/MPJ/ES) |
| **M12** | 8062 | 16-2 | 1330 | Thu | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/MPJ/ES) |
| **M12** | 7462 | 16-2 | 1350 | Thu | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/MPJ/ES) |
| **M12** | 7637 | 18-2 | 0600 | Sat | 612 612 612 000 | CW | (AB/ES) |
| **M12** | 9137 | 18-2 | 0620 | Sat | 612 612 612 000 | CW | (AB/ES) |
| **M12** | 9162 | 18-2 | 1310 | Sat | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/ES) |
| **M12** | 8062 | 18-2 | 1330 | Sat | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/ES) |
| **M12** | 7462 | 18-2 | 1350 | Sat | 104 1 1913 87 98525 67263 62087 ... 58932 48611 99751 000 000 | CW | (AB/ES/MPJ) |
| **M12** | 13569 | 19-2 | 1010 | Sun | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB) |
| **M12** | 14869 | 19-2 | 1030 | Sun | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB/BvR) |

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|---|---|---|---|---|---|---|---|
| **M12** | 16269 | 19-2 | 1040 | Sun | 582 1 2016 83 95483 79897 51890 ... 09660 56465 53493 000 000 | CW | (AB/BvR) |
| **M12** | 13362 | 20-2 | 1400 | Mon | 353 353 353 000 | CW | (AB/MPJ) |
| **M12** | 11562 | 20-2 | 1420 | Mon | 353 353 353 000 | CW | (AB/MPJ) |
| **M12** | 6937 | 20-2 | 2210 | Mon | 975 975 975 000 | CW | (AB) |
| **M12** | 5737 | 20-2 | 2230 | Mon | 975 975 975 000 | CW | (AB) |
| **M12** | 13362 | 22-2 | 1400 | Wed | 353 353 353 000 | CW | (AB/MPJ/ES) |
| **M12** | 11562 | 22-2 | 1420 | Wed | 353 353 353 000 | CW | (AB/MPJ/ES) |
| **M12** | 5429 | 22-2 | 2200 | Wed | 460 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB) |
| **M12** | 4629 | 22-2 | 2220 | Wed | 460 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB) |
| **M12** | 4029 | 22-2 | 2240 | Wed | 460 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB) |
| **M12** | 13569 | 23-2 | 1010 | Thu | 582 1 308 91 22259 27761 13876 ... 89856 95627 67199 000 000 | CW | (AB) |
| **M12** | 14869 | 23-2 | 1030 | Thu | 582 1 308 91 22259 27761 13876 ... 89856 95627 67199 000 000 | CW | (AB/ES) |
| **M12** | 16269 | 23-2 | 1050 | Thu | 582 1 308 91 22259 27761 13876 ... 89856 95627 67199 000 000 | CW | (AB/ES) |
| **M12** | 9162 | 23-2 | 1310 | Thu | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 8062 | 23-2 | 1330 | Thu | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 7637 | 25-2 | 0600 | Sat | 612 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB/ES) |
| **M12** | 9137 | 25-2 | 0620 | Sat | 612 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB/ES) |
| **M12** | 10237 | 25-2 | 0640 | Sat | 612 1 6963 177 99543 35423 11551 ... 42466 69519 97552 000 000 | CW | (AB/ES) |
| **M12** | 9162 | 25-2 | 1310 | Sat | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 8062 | 25-2 | 1330 | Sat | 104 104 104 000 | CW | (AB/ES/MPJ) |
| **M12** | 13569 | 26-2 | 1010 | Sun | 582 582 582 000 | CW | (AB) |
| **M12** | 14869 | 26-2 | 1030 | Sun | 582 582 582 000 | CW | (AB) |
| **M12** | 6835 | 27-2 | 0830 | Mon | unexpected txm. 687 1 8590 24 22326 68140 47776 ... 02259 98222 99220 000 000 | CW | (AB) |
| **M12** | 13362 | 27-2 | 1400 | Mon | 353 353 353 000 | CW | (AB/MPJ) |
| **M12** | 11562 | 27-2 | 1420 | Mon | 353 353 353 000 | CW | (AB/MPJ) |
| **M12** | 6937 | 27-2 | 2210 | Mon | 975 975 975 000 | CW | (AB) |
| **M12** | 5737 | 27-2 | 2230 | Mon | 975 975 975 000 | CW | (AB) |
| **M14** | 5374 | 3-2 | 1658 | Fri | 382 382 382 00000. Early start | CW | (AB/MPJ) |
| **M14** | 4975 | 3-2 | 1758 | Fri | 382 382 382 00000. Early start | CW | (AB/MPJ) |
| **M14** | 5422 | 4-2 | 0800 | Sat | 171 427 68 37612 80644 32250 ... 26061 46671 20801 427 68 00000 | CW | (AB) |
| **M14** | 5560 | 4-2 | 0900 | Sat | 171 427 68 37612 80644 32250 ... 26061 46671 20801 427 68 00000 | CW | (AB) |
| **M14** | 3696 | 7-2 | 1600 | Tue | 273 324 56 50881 ... (heavily jammed by a radio amateur) | CW | (AB/MPJ) |
| **M14** | 18041 | 10-2 | 0510 | Fri | i.p. ends with 648 55 00000 | CW | (EW) |
| **M14** | 17458 | 10-2 | 0930 | Fri | 617 617 617 00000 | CW | (ES) |
| **M14** | 5430 | 11-2 | 0758 | Sat | 171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000 | CW | (AB/BvR/HFD) |
| **M14** | 5560 | 11-2 | 0831 | Sat | 05028 | CW | (AB) |
| **M14** | 5560 | 11-2 | 0832 | Sat | 957 | CW | (AB) |
| **M14** | 5560 | 11-2 | 0850 | Sat | 89Í | CW | (AB) |
| **M14** | 5560 | 11-2 | 0858 | Sat | 171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000 | CW | (AB/HFD) |
| **M14** | 5947 | 12-2 | 0558 | Sun | 382 382 382 00000 | CW | (AB/HFD) |

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|---|---|---|---|---|---|---|---|
| **M14** | 6767 | 12-2 | 0658 | Sun | 382 382 382 00000 | CW | (AB/HFD) |
| **M14** | 5240 | 12-2 | 2300 | Sun | 376 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 490 91 00000 | CW | (AB) |
| **M14** | 5825 | 13-2 | 0000 | Mon | 376 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 490 91 00000 | CW | (AB) |
| **M14** | 4636 | 14-2 | 1820 | Tue | 186 186 186 Stops at 1823 UTC and re-sumes at 1829 UTC 518 518 86 86 32498 53900 12865 ... 57286 61220 51 stops and s/off | CW | (AB/MPJ) |
| **M14** | 4761 | 15-2 | 1920 | Wed | 186 (R) 586 746 748 518 518 86 86 32498 53900 12865 ... 20943 57286 61220 518 518 86 86 00000 | CW | (AB/MPJ/BR) |
| **M14** | 5374 | 17-2 | 1658 | Fri | 382 382 382 00000 | CW | (AB/MPJ) |
| **M14** | 4975 | 17-2 | 1757 | Fri | 372 382 382 00000 | CW | (AB/MPJ) |
| **M14** | 2568.5 | 18-2 | 0513 | Sat | 319991000712511800 1909789 1909791 1909787 1908788 00964999316191000724511800 | CW | (F5JBR) |
| **M14** | 5430 | 18-2 | 0758 | Sat | 171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000. Breakdown in the middle of the message | CW | (AB) |
| **M14** | 5560 | 18-2 | 0858 | Sat | 171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000. Breakdown in the middle of the message | CW | (AB) |
| **M14** | 5240 | 19-2 | 2300 | Sun | 376 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 490 91 00000 | CW | (AB) |
| **M14** | 5825 | 20-2 | 0000 | Mon | 376 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 490 91 00000 | CW | (AB) |
| **M14** | 8165 | 21-2 | 0606 | Tue | i.p. 56784 23674 34895 89456 89340 124 89 00000 | CW | (ES) |
| **M14** | 3687 | 21-2 | 1600 | Tue | 273 324 56 50881 20930 80379 80633 94070 ... 68896 93371 29879 09588 16115 324 56 00000 | MCW | (F5JBR) |
| **M14** | 5430 | 25-2 | 0800 | Sat | 171 184 59 13253 26472 48950 ... 49653 12311 84502 184 184 59 59 00000 | CW | (AB-POL/ES) |
| **M14** | 5430 | 25-2 | 0843 | Sat | 60066 818015 88200 46813 14275 59900 94503 79388 78007 228 Single groups. Transmission and Carrier cut of abruptly at 0844z. | CW | (ES) |
| **M14** | 5560 | 25-2 | 0900 | Sat | 171 184 59 13253 26472 48950 ... 49653 12311 84502 184 184 59 59 00000 | CW | (AB-POL/ES) |
| **M14** | 17458 | 25-2 | 0930 | Sat | 617 617 617 00000 | CW | (AB-POL) |
| **M14** | 5947 | 26-2 | 0600 | Sun | 382 382 382 00000 | CW | (AB) |
| **M14** | 6767 | 26-2 | 0700 | Sun | 382 382 382 00000 | CW | (AB) |
| **M14** | 5240 | 26-2 | 2300 | Sun | 376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000 | CW | (AB) |
| **M14** | 5825 | 27-2 | 0000 | Mon | 376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000 | CW | (AB) |
| **M21** | 2801.5 | 7-2 | 1414 | Tue | =991716??8?????? =991718??8?????? =991719??8?????? =991720??8?????? | CW | (F5JBR) |
| **M21** | 3751 | 9-2 | 1414 | Thu | =99?1714?9????? =99?1715?9????? =99?1716?9????? | CW | (F5JBR-J) |
| **M21** | 3322 | 14-2 | 0053 | Tue | =990357??0????? | CW | (GNL) |
| **M21** | 7475 | 23-2 | 0515 | Thu | =990818??0????? =990819??0????? =990820??0????? =990821??0????? =990822??0????? =990823??0????? | CW | (F5JBR) |
| **M21** | 5980.5 | 23-2 | 0657 | Thu | =12778719503347 =991148???8????? =22778902040624 =12778719502348 =991149??8????? =12778719502949 | CW | (F5JBR) |

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| | | | | | =991150??8???? | | |
| **M22** | 10219 | 5-2 | 1251 | Sun | VVV DE 4XZ 4XZ | CW | (BvR) |
| **M22** | 10219 | 5-2 | 1549 | Sun | VVV DE 4XZ 4XZ = = | CW | (AB) |
| **M22** | 10219 | 5-2 | 1818 | Sun | 5FGs messages 4XZ | CW | (MCO) |
| **M22** | 10219 | 6-2 | 0752 | Mon | VVV DE 4XZ, traffic list + messages | CW | (SP1) |
| **M22** | 10219 | 6-2 | 1100 | Mon | VVV DE 4XZ, traffic list + messages | CW | (AB) |
| **M22** | 10219 | 7-2 | 1352 | Tue | HH6K HH6K HH6K QSL NR 07 == HH6K HH6K HH6K QSL NR 07 == AR AR VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = AR AR NW TC 1 NR 511 | CW | (ML4) |
| **M22** | 10219 | 8-2 | 2032 | Wed | VVV DE 4XZ 4XZ = = | CW | (RL) |
| **M22** | 10219 | 11-2 | 0643 | Sat | VVV DE 4XZ 4XZ | CW | (BvR) |
| **M22** | 10219 | 12-2 | 1758 | Sun | VVV DE 4XZ 4XZ = = | CW | (AB) |
| **M22** | 8319 | 13-2 | 1835 | Mon | VVV DE 4XZ 4XZ | CW | (BvR) |
| **M22** | 10219 | 15-2 | 1803 | Wed | VVV DE 4XZ 4XZ = = AR AR NW QTC 1 NR 152 = = NR 152 GX V LC9E 404151 LC4G GR 51 = | CW | (SP1) |
| **M22** | 6607 | 17-2 | 1642 | Fri | VVV 4XZ 4XZ = = | CW | (AB) |
| **M32** | 6838 | 6-2 | 0805 | Mon | W7AD W7AD W7AD DE TI4O TI4O K. QSA 4. OK QLP 30. CFM | CW | (AB) |
| **M32** | 17452 | 9-2 | 0825 | Thu | RDL RDL RDL 55901 93131 55901 93131 55901 93131 K | CW | (AB) |
| **M32** | 12152 | 11-2 | 0928 | Sat | 1YNZ 151 20 11 1 224 15 1 = 004 261 = 4600 4775 9346 2487 7936 7941 6548 0013 5130 0924 5505 1541 2984 2571 5808 6273 5193 1117 K | CW | (AB) |
| **M32** | 12152 | 11-2 | 0941 | Sat | 1YNZ ZWR ZYT ZXJ ZDJ ZLP ZZB QSW3 K | CW | (AB) |
| **M32** | 4855 | 15-2 | 2135 | Wed | O4R4 DE KHJ4 K. O4R4 DE KHJ4 QSY 51202 QSY 5120 K. QSA 4 QSA ? K | CW | (JPL-J) |
| **M32** | 7922 | 16-2 | 1409 | Thu | 4V6O QBE QYT 6 K. YVSA DE 4V6O QBE QYT 6 K. NW NBJ5 DE V16H K. NBJ5 DE V1BH QRU ? K. VJBH QRV K | CW | (JPL-NZL) |
| **M32** | 8543 | 21-2 | 1249 | Tue | XXX 9RPN 97650 SNOHA 1996963634 K | CW | (F5JBR) |
| **M32** | 8543 | 21-2 | 1252 | Tue | XXX 9RPN 80327 ERUNDOWSKIJ 06671 MOOSTANIE 7749 1908 K | CW | (F5JBR) |
| **M32** | 8543 | 21-2 | 1254 | Tue | XXX 9RPN 51271 SLUHOWOJ 7106 3130 K | CW | (F5JBR) |
| **M32a** | 5912 | 1-2 | 1013 | Wed | RAO98 223 30 1 1253 223 = 76342 96478 ... 01029 = RAO98 OK QRU K | CW | (JPL-NZL) |
| **M32a** | 5174 | 5-2 | 0026 | Sun | REO DE RMP QTC 454 166 51 957 454= SML= weather forecast for the Baltic area | CW | (GNL) |
| **M32a** | 7861 | 18-2 | 1904 | Sat | RBL71 DE RAL2 QSA? K. RFH2 DE RAL2 QSA? K. RDU2 DE RAL2 QSA? K. RHW2 DE RAL2 QSA? K | CW | (AB) |
| **M32a** | 7637.5 | 20-2 | 1030 | Mon | XXX SB1E 16207 WTORVENXE 2975 8212 K | CW | (F5JBR) |
| **M32a** | 7637.5 | 20-2 | 1037 | Mon | XXX SB1E 20516 16207 WTORVENXE 2975 8212 K | CW | (F5JBR) |
| **M32a** | 5816 | 21-2 | 1502 | Tue | i.p. 21028 = RLO RLO RLO DE RIT RIT QTC 406 29 21 1754 406 = 11111 ... | CW | (JPL-NZL) |
| **M32b** | 5912 | 13-2 | 0729 | Mon | RAO98 QRU K. RJF95 de RCY7 QTC K. RJF95 QRV K. RCY7 795.. 52 13 1044 795 = | CW | (F5JBR-J) |
| **M32b** | 8816 | 13-2 | 1024 | Mon | rjf94 rjc38 de 75125 qto 1005 qrd XLLV XLMV qbd 0600 qre 1215 k - qql ULPE 1054 qre XLLV 1200 qbd 0400 k - qqm XLLV 1200 sk | CW | (WP3) |
| **M32c** | 14557 | 3-2 | 1126 | Fri | REA4 REA4 // 03100 99900 02150 27627 70997 23112 11078 21123 73633 82620 // REA4 K | CW | (JU) |
| **M32c** | 14557 | 3-2 | 1231 | Fri | XXX XXX 1QRF 1QRF 33643 SAEKOSMEH | CW | (JU) |

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| | | | | | 8166 0554 | | |
| **M32c** | 8112 | 17-2 | 1801 | Fri | W-markers: Tu-95MS Bear H net | CW | (Tom) |
| **M32c** | 8112 | 17-2 | 1840 | Fri | W-markers: Tu-95MS Bear H net | CW | (AB) |
| **M32c** | 8112 | 20-2 | 1642 | Mon | W-markers | CW | (SP1) |
| **M32c** | 8112 | 20-2 | 1720 | Mon | W-markers: Tu-95MS Bear H net | CW | (Tom) |
| **M32c** | 8112 | 21-2 | 1202 | Tue | W-markers: Tu-95MS Bear H net | CW | (Tom) |
| **M41** | 5770 | 7-2 | 1402 | Tue | ZJWT ZJWT AR | CW | (F5JBR) |
| **M41** | 2653 | 17-2 | 1833 | Fri | 52 9100511800 GOLOMINE 995299836 3732 9952990527636 | CW | (F5JBR) |
| **M41** | 4542 | 20-2 | 0600 | Mon | PWZW PWZW = 005726 7114667 91071 04 = 005726 7114667 9109 04 = 5726 7142612 91069 06 = 20 fÚvr. 17 (F5JBR) | CW | (F5JBR) |
| **M41** | 6063 | 21-2 | 0617 | Tue | QTIL QTIL QTIL 003033 539 54 56 510 91100 511 700 920 = ... | CW | (F5JBR) |
| **M41** | 4788 | 22-2 | 0530 | Wed | WV1H WV1H AR | CW | (F5JBR) |
| **M41** | 3194 | 22-2 | 1400 | Wed | H7BL H7BL AR | CW | (F5JBR) |
| **M42** | 12164 | 1-2 | 1000 | Wed | Russian intel | OFDM | (AB) |
| **M42** | 15620 | 1-2 | 1011 | Wed | Russian diplo | CROWD-36 | (AB) |
| **M42b** | 5112 | 1-2 | 0010 | Wed | QSA 2 QSY 34604 QSY 34604 QSY 34604 K. R 677 0020 K | CW | (GNL) |
| **M42b** | 5371 | 1-2 | 0010 | Wed | NGE4 (3X) DE FMG9 (2X) K | CW | (GNL) |
| **M42b** | 5112 | 1-2 | 0022 | Wed | 139 192 1 0000 8167 no message sent | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 2-2 | 0010 | Thu | OKJI (3X) DE 7'AJH (2X) K | CW | (GNL) |
| **M42b** | 5371 | 2-2 | 0025 | Thu | Only tuning up, no messages | CW | (GNL) |
| **M42b** | 5112 | 3-2 | 0010 | Fri | 1PZF (3X) DE YN5W (2X) K. R 139 0015 K | CW | (GNL) |
| **M42b** | 5371 | 3-2 | 0010 | Fri | 1PZF: R 400 0021 K | CW | (GNL) |
| **M42b** | 5371 | 3-2 | 0013 | Fri | Unreadable | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 3-2 | 0017 | Fri | YN5W: 400 100 03 0000 3456 followed by 5FG messages (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 4-2 | 0011 | Sat | 1S4W (3X) DE 1ZUX K | CW | (GNL) |
| **M42b** | 5154.5 | 5-2 | 0004 | Sun | i.p. RPT = 722 194 9744 327 84161 3752 180 0603 AR | CW | (GNL) |
| **M42b** | 5112 | 5-2 | 0011 | Sun | YKTU (3X) DE XAVYa | CW | (GNL) |
| **M42b** | 5418 | 5-2 | 0052 | Sun | QHVA DE AJLW K | CW | (GNL) |
| **M42b** | 5418 | 5-2 | 0054 | Sun | GTYA DE AJLW K | CW | (GNL) |
| **M42b** | 5112 | 6-2 | 0011 | Mon | 030 100 06 0000 3412 followed by 5FG messages (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 6-2 | 0011 | Mon | JPSYa DE LVHD K OP CHAT R 628 0021 K | CW | (GNL) |
| **M42b** | 5371 | 6-2 | 0011 | Mon | LVHD (3X) DE JPAYa (2X) K + Op chat | CW | (GNL) |
| **M42b** | 5371 | 6-2 | 0015 | Mon | JPSYa: 628 100 06 0000 4811 (didn't succeed to send a complete message) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 7-2 | 0011 | Tue | R 135 0030 K | CW | (GNL) |
| **M42b** | 5371 | 7-2 | 0011 | Tue | PNYa7 (3X) DE PA41 (2X) K. R 134 67EEEE R 180 67074EEEE R 180 0021 K | CW | (GNL) |
| **M42b** | 5112 | 7-2 | 0012 | Tue | 180 110 07 0000 6707 followed by 5FG messages (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 7-2 | 0024 | Tue | 135 100 07 0000 4574 (uncopiable) | FSK 50/500 | (GNL) |
| **M42b** | 5776 | 7-2 | 0940 | Tue | 9ZNJ wkg NVR8 QSA NO QSY 76208 | CW | (F5JBR) |
| **M42b** | 5112 | 8-2 | 0011 | Wed | GD14 (3X) DE O9FS (2X) K. R 391 0017 K | CW | (GNL) |
| **M42b** | 5371 | 8-2 | 0011 | Wed | O9FS (3X) DE GD14 (2X) K. R 040 0014 K | CW | (GNL) |
| **M42b** | 5112 | 8-2 | 0012 | Wed | 040 125 08 0000 3451 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 8-2 | 0015 | Wed | GD14: 391 100 08 0000 9311 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 9-2 | 0011 | Thu | L7Y2 (3X) DE DMSYa (2X) K. R 135 0019 K | CW | (GNL) |
| **M42b** | 5371 | 9-2 | 0011 | Thu | L7Y2: R 099 0014 K | CW | (GNL) |
| **M42b** | 5112 | 9-2 | 0012 | Thu | 099 100 09 0000 4567 followed by a 5FG | FSK 50/500 | (GNL) |

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| | | | | | message (=50= separator) | | |
| **M42b** | 5371 | 9-2 | 0017 | Thu | too poor to copy | FSK 50/500 | (GNL) |
| **M42b** | 5376 | 9-2 | 2355 | Thu | Op chat i.p.: YuYuD UIYuWB CDBUYu ZEGNH YaPPWI 381 K. LGTX (3X) DE XPLO (2X) R 675? K. ZH1X (3X) DE XPLO (2X) K | CW | (GNL) |
| **M42b** | 5112 | 10-2 | 0011 | Fri | S3HP (3X) DE 3YaTV (2X) K. R 121 0018 K | CW | (GNL) |
| **M42b** | 5112 | 10-2 | 0011 | Fri | 320 100 10 0000 6723 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 10-2 | 0011 | Fri | 3YaTV (3X) DE S3HP (2X) K. OK 320 0014 K | CW | (GNL) |
| **M42b** | 5371 | 10-2 | 0016 | Fri | 121 100 10 0000 5621 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 11-2 | 0010 | Sat | EN5B (3X) DE 2C5I (2X) K. R 131 0017 K | CW | (GNL) |
| **M42b** | 5112 | 11-2 | 0011 | Sat | 234 100 11 0000 5678 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 11-2 | 0011 | Sat | 2C5I (3X) DE EN5B (2X) K. R 234 0013 K | CW | (GNL) |
| **M42b** | 5112 | 12-2 | 0010 | Sun | B5T9 (3X) DE KJ78 (2X) K. R 131 0017 K | CW | (GNL) |
| **M42b** | 5112 | 12-2 | 0011 | Sun | 456 100 12 0000 7890 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 12-2 | 0011 | Sun | KJ78 (3X) DE B5T9 (2X) K. R 456 EEEEE 456 0014 K | CW | (GNL) |
| **M42b** | 5371 | 12-2 | 0014 | Sun | 131 200 11 0000 3223 followed by a 5FG message (=50= separator), mostly garbled | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 12-2 | 0015 | Sun | 131 100 12 0000 4565 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 13-2 | 0010 | Mon | DZNG (2X) R 130 0017 K | CW | (GNL) |
| **M42b** | 5371 | 13-2 | 0010 | Mon | M47L (3X) DE DZNG (2X) K. R 730 0014 K | CW | (GNL) |
| **M42b** | 5112 | 13-2 | 0011 | Mon | 730 115 13 0000 6712 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 13-2 | 0015 | Mon | 130 100 13 0000 3443 followed by a 5FG message (=50= separator), mostly garbled | FSK 50/500 | (GNL) |
| **M42b** | 5112 | 14-2 | 0010 | Tue | D2CL (3X) DE JH37 (2X) K | CW | (GNL) |
| **M42b** | 5371 | 14-2 | 0010 | Tue | JH37 (3X) DE D2CL (2X) K. R 712 0014 K | CW | (GNL) |
| **M42b** | 5112 | 14-2 | 0011 | Tue | 712 100 14 0005 3321 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 5371 | 14-2 | 0015 | Tue | 132 100 14 0000 5692 followed by a 5FG message (=50= separator) | FSK 50/500 | (GNL) |
| **M42b** | 9126 | 14-2 | 0622 | Tue | M8TK wkg IK7R (Message sent in FSK 50/500) | CW | (F5JBR) |
| **M42b** | 4765 | 14-2 | 1446 | Tue | OBRA wkg WVXZ (Message sent in FSK 50/500) | CW | (F5JBR) |
| **M42b** | 3222 | 14-2 | 2045 | Tue | HLKV wkg OCZE QSA NO QSY 61527 | CW | (F5JBR) |
| **M42b** | 5893 | 15-2 | 0748 | Wed | ZE4A wkg EBCW | CW | (F5JBR) |
| **M42b** | 3041 | 15-2 | 1900 | Wed | BNIZ wkg F5SA | CW | (F5JBR) |
| **M42b** | 6837 | 17-2 | 0923 | Fri | ZE4A wkg P8RK | CW | (F5JBR) |
| **M42b** | 4461 | 18-2 | 0553 | Sat | PZAK wkg PLXW | CW | (F5JBR) |
| **M42b** | 6856 | 19-2 | 1257 | Sun | WL9P msg to IMTA: RYRYRY 085 100 19 1230 4628 = 28349 93746 1856 10285 17 53+1 01926 16283 172319 ... | FSK 50/500 | (F5JBR) |
| **M42b** | 4026 | 20-2 | 0552 | Mon | PLXW wkg PZAK | CW | (F5JBR) |
| **M42b** | 4856 | 20-2 | 0617 | Mon | MAST wkg IABY | CW | (F5JBR) |
| **M42b** | 3254 | 20-2 | 0630 | Mon | UW9M clg L47K | CW | (F5JBR) |
| **M42b** | 4012 | 20-2 | 0719 | Mon | VGTR wkg NLAT | CW | (F5JBR) |
| **M42b** | 4011 | 21-2 | 0721 | Tue | G3WM wkg SK8I | CW | (F5JBR) |
| **M42b** | 4012 | 21-2 | 0722 | Tue | VGTR wkg NLAT | CW | (F5JBR) |
| **M42b** | 3261 | 21-2 | 1754 | Tue | NCS wkg 1 out station. Message in FSK 50/500: RYRYRYRYRYRYRYRYR 294 180 21 1700 3765 = ... | CW | (F5JBR) |

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| **M42b** | 13371 | 23-2 | 0616 | Thu | K4IO wkg PW6N | CW | (F5JBR) |
| **M42b** | 9864 | 24-2 | 0826 | Fri | ChGUB wkg JRMS | CW | (F5JBR) |
| **M51a** | 6825 | 2-2 | 0832 | Thu | i.p. QAQSD NNCJE 74302 DRWED ?/.' NVBXC NSWPO NDEYJ DJKED AXZVS NVLRU LDPEJ WRSFU 43269 HGKRO ... ends at 0920 UTC | CW | (AB) |
| **M89** | 6840 | 1-2 | 0120 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 1-2 | 0120 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6053 | 1-2 | 0919 | Wed | V TR2Q (x3) DE 5TUH (x2) //10178 | CW | (JPL) |
| **M89** | 10178 | 1-2 | 0919 | Wed | V TR2Q (x3) DE 5TUH (x2) //6053 | CW | (JPL) |
| **M89** | 6840 | 1-2 | 0920 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 1-2 | 0920 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 10217 | 1-2 | 0925 | Wed | i.p. R IEC = 1546 AR K. R OK U MSG GA K. R GA K. R GA K. R RPT 9W TO 10W K. R QSL 1732 K | CW | (JPL) |
| **M89** | 4060 | 1-2 | 1011 | Wed | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 1-2 | 1011 | Wed | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 6840 | 1-2 | 1020 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 1-2 | 1020 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 3642 | 1-2 | 1515 | Wed | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 1-2 | 1515 | Wed | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 3777 | 1-2 | 1517 | Wed | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 1-2 | 1517 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4131 | 1-2 | 1519 | Wed | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 4860 | 1-2 | 1520 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 1-2 | 1520 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 1-2 | 1530 | Wed | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 5801 | 2-2 | 0827 | Thu | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 2-2 | 0827 | Thu | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 6053 | 2-2 | 0838 | Thu | V TR2Q (x3) DE 5TUH (x2) //10178 | CW | (JPL) |
| **M89** | 10178 | 2-2 | 0838 | Thu | V TR2Q (x3) DE 5TUH (x2) //6053 | CW | (JPL) |
| **M89** | 3777 | 2-2 | 0844 | Thu | V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060 | CW | (JPL) |
| **M89** | 4532 | 2-2 | 0844 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060 | CW | (JPL) |
| **M89** | 6793 | 2-2 | 0844 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 4532 and 8060 | CW | (JPL) |
| **M89** | 8060 | 2-2 | 0844 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793 | CW | (JPL) |
| **M89** | 3642 | 2-2 | 1302 | Thu | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 2-2 | 1302 | Thu | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4720 | 2-2 | 1330 | Thu | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 7750 | 2-2 | 1410 | Thu | VVV WYD DE VWG VVV WYD DE VWG QSA ? K. R R R R R QSV K. R R R DE VWG V H VW DE VWG HR ZNN VA | CW | (JPL) |
| **M89** | 4060 | 2-2 | 1952 | Thu | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 2-2 | 1952 | Thu | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 5801 | 3-2 | 0838 | Fri | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 3-2 | 0838 | Fri | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |

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| **M89** | 3642 | 3-2 | 1648 | Fri | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 3-2 | 1649 | Fri | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 3-2 | 1649 | Fri | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 3-2 | 1650 | Fri | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 3-2 | 1650 | Fri | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 3642 | 3-2 | 1655 | Fri | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 3-2 | 1655 | Fri | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4060 | 4-2 | 1248 | Sat | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 4-2 | 1248 | Sat | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 3777 | 4-2 | 1252 | Sat | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 4-2 | 1252 | Sat | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 3642 | 4-2 | 1255 | Sat | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 4060 | 5-2 | 1236 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 5-2 | 1236 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 4532 | 5-2 | 1240 | Sun | V M8JF (x3) DE RIS9 (x2) | CW | (JPL) |
| **M89** | 3642 | 5-2 | 1550 | Sun | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 5-2 | 1550 | Sun | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4060 | 5-2 | 1556 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 5-2 | 1556 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 4131 | 5-2 | 1558 | Sun | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3777 | 5-2 | 1601 | Sun | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 5-2 | 1601 | Sun | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4244 | 5-2 | 1603 | Sun | i.p. R SK VV ERAR DE QUJI K. R QSA 2 K. R HR NR 409 K. R SK | CW | (JPL) |
| **M89** | 4060 | 5-2 | 1616 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 5-2 | 1616 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3022 | 6-2 | 1331 | Mon | M6TF de GQ5E V; wkg KFR2 1XEZ 5BYI SGNI 8PDM LNU9 PTY0 APD8 YGF3. QRU NIL GB SK | CW | (F5JBR) |
| **M89** | 4060 | 6-2 | 1428 | Mon | FIK3 de H4JH QTC NR 024 CK 499 ... //4609 kHz | CW | (F5JBR) |
| **M89** | 4609 | 6-2 | 1428 | Mon | FIK3 de H4JH QTC NR 024 CK 499 ... //4060 kHz | CW | (F5JBR) |
| **M89** | 4060 | 6-2 | 1528 | Mon | TR2Q de 5TUH //4609 kHz | CW | (F5JBR) |
| **M89** | 4609 | 6-2 | 1528 | Mon | TR2Q de 5TUH //4060 kHz | CW | (F5JBR) |
| **M89** | 3642 | 6-2 | 1800 | Mon | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 6-2 | 1800 | Mon | V DKG6 (x3) DE 3A7D (x2) //36422 | CW | (JPL) |
| **M89** | 3777 | 6-2 | 1802 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 6-2 | 1802 | Mon | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 6-2 | 1804 | Mon | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 4609 | 6-2 | 1804 | Mon | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 4060 | 6-2 | 1818 | Mon | TR2Q de 5TUH //4609 kHz | CW | (F5JBR) |
| **M89** | 4609 | 6-2 | 1818 | Mon | TR2Q de 5TUH //4060 kHz | CW | (F5JBR) |
| **M89** | 6793 | 7-2 | 0200 | Tue | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 7-2 | 0200 | Tue | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 6053 | 7-2 | 0848 | Tue | TR2Q de 5TUH | CW | (F5JBR) |
| **M89** | 5549 | 7-2 | 0851 | Tue | VK1X wkg 4XA3: MSG NR 01 CK 23 110201 RMKS 1234 TO 4321 | CW | (F5JBR) |
| **M89** | 5801 | 7-2 | 1114 | Tue | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 7-2 | 1114 | Tue | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 3777 | 7-2 | 1116 | Tue | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 7-2 | 1116 | Tue | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4860 | 7-2 | 1120 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 7-2 | 1120 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |

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|---|---|---|---|---|---|---|---|
| **M89** | 3232 | 7-2 | 1216 | Tue | 4FRW wkg UP5L QSO and QSL 2015 K | CW | (F5JBR) |
| **M89** | 3022 | 7-2 | 1330 | Tue | M6TF de GQ5E V QRU NIL GB SK | CW | (F5JBR) |
| **M89** | 4060 | 7-2 | 1330 | Tue | TR2Q de 5TUH | CW | (F5JBR) |
| **M89** | 4609 | 7-2 | 1330 | Tue | FIK3 de H4JH V | CW | (F5JBR) |
| **M89** | 3777 | 7-2 | 1345 | Tue | M8JF de RIS9 V //4532 kHz | CW | (F5JBR) |
| **M89** | 4532 | 7-2 | 1345 | Tue | M8JF de RIS9 V //3777 kHz | CW | (F5JBR) |
| **M89** | 10180 | 8-2 | 0948 | Wed | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 8-2 | 0950 | Wed | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 8-2 | 0950 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 8-2 | 2158 | Wed | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 8-2 | 2158 | Wed | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 3642 | 8-2 | 2200 | Wed | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 8-2 | 2202 | Wed | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 8-2 | 2202 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4131 | 8-2 | 2204 | Wed | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 5801 | 9-2 | 1117 | Thu | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 9-2 | 1117 | Thu | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 3777 | 9-2 | 1119 | Thu | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 9-2 | 1119 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4860 | 9-2 | 1120 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 9-2 | 1120 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4060 | 9-2 | 1125 | Thu | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 9-2 | 1125 | Thu | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 4131 | 9-2 | 1818 | Thu | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 4860 | 9-2 | 1820 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 9-2 | 1820 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 9090 | 10-2 | 0717 | Fri | 6NED: NR 1065/EX 1519 RMKS 7172 TO 1348 | CW | (F5JBR-J) |
| **M89** | 3642 | 10-2 | 2234 | Fri | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 10-2 | 2234 | Fri | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4060 | 10-2 | 2236 | Fri | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 10-2 | 2236 | Fri | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 6793 | 11-2 | 0210 | Sat | V M8JF (x3) DE RIS9 (x2) 8060 | CW | (JPL) |
| **M89** | 8060 | 11-2 | 0210 | Sat | V M8JF (x3) DE RIS9 (x2) 6793 | CW | (JPL) |
| **M89** | 4609 | 11-2 | 0815 | Sat | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 6053 | 11-2 | 0815 | Sat | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 10178 | 11-2 | 0815 | Sat | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 6793 | 11-2 | 0818 | Sat | V M8JF (x3) DE RIS9 (x2) 8060 | CW | (JPL) |
| **M89** | 8060 | 11-2 | 0818 | Sat | V M8JF (x3) DE RIS9 (x2) 6793 | CW | (JPL) |
| **M89** | 10640 | 11-2 | 0820 | Sat | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) | CW | (JPL) |
| **M89** | 5801 | 11-2 | 1208 | Sat | V DKG6 (x3) DE 3A7D (x2) 10180 | CW | (JPL) |
| **M89** | 10180 | 11-2 | 1208 | Sat | V DKG6 (x3) DE 3A7D (x2) 5801 | CW | (JPL) |
| **M89** | 3777 | 11-2 | 1209 | Sat | V M8JF (x3) DE RIS9 (x2) 4532 | CW | (JPL) |
| **M89** | 4532 | 11-2 | 1209 | Sat | V M8JF (x3) DE RIS9 (x2) 3777 | CW | (JPL) |
| **M89** | 4060 | 11-2 | 1212 | Sat | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4855 | 11-2 | 1214 | Sat | i.p. N3T4 753T 355U ... AR K. R RPT K | CW | (JPL) |
| **M89** | 5588 | 11-2 | 1219 | Sat | i.p. 6NT3 336U 57N5 7TA7 ... | CW | (JPL) |
| **M89** | 4860 | 11-2 | 1220 | Sat | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)6840 | CW | (JPL) |
| **M89** | 6840 | 11-2 | 1220 | Sat | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)4860 | CW | (JPL) |

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|---|---|---|---|---|---|---|---|
| **M89** | 5299 | 11-2 | 1232 | Sat | i.p. 7TUT .N74 346. 5436 ... AR | CW | (JPL) |
| **M89** | 4321 | 11-2 | 1301 | Sat | i.p. 1229 AR K. R HR FF K. NR 3/EX 2102 RMKS 4549.. = L.O/.J4 AR = | CW | (JPL) |
| **M89** | 6773 | 12-2 | 0652 | Sun | M8JF de RIS9 V (6773//8060//8335 kHz) | CW | (F5JBR-J) |
| **M89** | 8060 | 12-2 | 0652 | Sun | M8JF de RIS9 V (6773//8060//8335 kHz) | CW | (F5JBR-J) |
| **M89** | 8335 | 12-2 | 0652 | Sun | M8JF de RIS9 V (6773//8060//8335 kHz) | CW | (F5JBR-J) |
| **M89** | 10180 | 12-2 | 0944 | Sun | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 6053 | 12-2 | 0946 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 10178 | 12-2 | 0946 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3777 | 12-2 | 0948 | Sun | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 12-2 | 0948 | Sun | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 12-2 | 1306 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4119 | 12-2 | 1306 | Sun | i.p. R U GA K. RR QSL 2119 K. R HR NR 309 K. R VA | CW | (JPL) |
| **M89** | 4609 | 12-2 | 1306 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 4860 | 12-2 | 1320 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 12-2 | 1320 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 3642 | 12-2 | 1324 | Sun | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 12-2 | 1324 | Sun | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4131 | 12-2 | 1710 | Sun | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3777 | 12-2 | 2238 | Sun | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 12-2 | 2238 | Sun | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4131 | 12-2 | 2239 | Sun | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3642 | 12-2 | 2240 | Sun | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 12-2 | 2240 | Sun | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4609 | 12-2 | 2242 | Sun | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 4060 | 12-2 | 2244 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4060 | 13-2 | 0003 | Mon | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 13-2 | 0003 | Mon | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 6053 | 13-2 | 0004 | Mon | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 10178 | 13-2 | 0004 | Mon | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 6793 | 13-2 | 0012 | Mon | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 13-2 | 0012 | Mon | i.p. D467 TUUN 6645 N367 3474 ... AR V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 6840 | 13-2 | 0220 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 13-2 | 0220 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 8350 | 13-2 | 0230 | Mon | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 6053 | 13-2 | 0817 | Mon | TR2Q (x3) de 5TUH (x2) V | CW | (F5JBR-J) |
| **M89** | 3777 | 13-2 | 0939 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 and 6793 | CW | (JPL) |
| **M89** | 4532 | 13-2 | 0939 | Mon | V M8JF (x3) DE RIS9 (x2) //3777 and 6793 | CW | (JPL) |
| **M89** | 6793 | 13-2 | 0939 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 and 3777 | CW | (JPL) |
| **M89** | 6840 | 13-2 | 1020 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 13-2 | 1020 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 4060 | 13-2 | 1024 | Mon | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 13-2 | 1024 | Mon | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 6793 | 13-2 | 1025 | Mon | M8JF DE RIS9 | CW | (RHA) |
| **M89** | 8350 | 13-2 | 1030 | Mon | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 4860 | 13-2 | 1120 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 13-2 | 1120 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |

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| **M89** | 5801 | 13-2 | 1127 | Mon | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 4720 | 13-2 | 1130 | Mon | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 3642 | 13-2 | 1508 | Mon | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 13-2 | 1508 | Mon | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 5455 | 13-2 | 1518 | Mon | i.p. R SK ... DE J.W. K. QSA ? K. R U QSY TO 7916 K. R U QSY TO 7916 K. R U QSY TO 7916 K | CW | (JPL) |
| **M89** | 4720 | 13-2 | 1530 | Mon | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 3642 | 13-2 | 1700 | Mon | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 13-2 | 1700 | Mon | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4060 | 13-2 | 1702 | Mon | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 13-2 | 1702 | Mon | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 3777 | 13-2 | 1704 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 and 6793 | CW | (JPL) |
| **M89** | 4532 | 13-2 | 1704 | Mon | V M8JF (x3) DE RIS9 (x2) //3777 and 6793 | CW | (JPL) |
| **M89** | 6053 | 14-2 | 0950 | Tue | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 10178 | 14-2 | 0950 | Tue | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3777 | 14-2 | 0955 | Tue | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 14-2 | 0955 | Tue | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 5801 | 14-2 | 1017 | Tue | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 14-2 | 1017 | Tue | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 4060 | 14-2 | 1440 | Tue | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 14-2 | 1440 | Tue | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3642 | 14-2 | 1453 | Tue | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 14-2 | 1453 | Tue | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 3642 | 14-2 | 2141 | Tue | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 14-2 | 2141 | Tue | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 3777 | 14-2 | 2143 | Tue | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 14-2 | 2143 | Tue | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 14-2 | 2145 | Tue | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 14-2 | 2145 | Tue | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 8430 | 15-2 | 0922 | Wed | V BR3S (x3) DE JU9D (x2 | CW | (JPL) |
| **M89** | 6053 | 15-2 | 1003 | Wed | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 10178 | 15-2 | 1003 | Wed | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 3777 | 15-2 | 1006 | Wed | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 15-2 | 1006 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 6622 | 15-2 | 1015 | Wed | i.p. CQ K. R GA K. R R E 7G GA 1P = TU4U D3N4 UTAA 747. 4UUA 55UU 463N ... | CW | (JPL) |
| **M89** | 5778 | 15-2 | 1020 | Wed | i.p. CK 1014 EEEEEE 7G NR 0 | CW | (JPL) |
| **M89** | 3642 | 15-2 | 1417 | Wed | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 15-2 | 1417 | Wed | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4860 | 15-2 | 1420 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 15-2 | 1420 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4060 | 15-2 | 1425 | Wed | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 4609 | 15-2 | 1425 | Wed | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 4377 | 15-2 | 1428 | Wed | i.p. D657 U5TD 4TDD 3DAD NDTN ... AR AR | CW | (JPL) |
| **M89** | 4720 | 15-2 | 1430 | Wed | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |
| **M89** | 4131 | 15-2 | 1745 | Wed | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3415 | 15-2 | 1752 | Wed | i.p. ANU7 734A 4T36 TTTT T46A TAD4 ... AR QSL ? K. R R | CW | (JPL) |
| **M89** | 4860 | 15-2 | 1820 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 15-2 | 1820 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 15-2 | 1830 | Wed | V WNF (x3) DE FXM (x2) QSA ? QSV K | CW | (JPL) |

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|---|---|---|---|---|---|---|---|
| **M89** | 4860 | 15-2 | 1920 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 15-2 | 1920 | Wed | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 6793 | 16-2 | 0440 | Thu | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 16-2 | 0440 | Thu | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 10178 | 16-2 | 0811 | Thu | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 6793 | 16-2 | 0813 | Thu | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 16-2 | 0813 | Thu | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 10640 | 16-2 | 0820 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) | CW | (JPL) |
| **M89** | 8350 | 16-2 | 0830 | Thu | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3777 | 16-2 | 1403 | Thu | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 16-2 | 1403 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 3642 | 16-2 | 1405 | Thu | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 16-2 | 1405 | Thu | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4720 | 16-2 | 1430 | Thu | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3642 | 16-2 | 1811 | Thu | DKG6 de 3A7D V | CW | (F5JBR) |
| **M89** | 10178 | 17-2 | 0812 | Fri | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 6793 | 17-2 | 0813 | Fri | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 17-2 | 0813 | Fri | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 10640 | 17-2 | 0820 | Fri | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) | CW | (JPL) |
| **M89** | 7602 | 17-2 | 1315 | Fri | DKG6 de 3A7D V | CW | (F5JBR) |
| **M89** | 3777 | 17-2 | 1421 | Fri | M8JF (x3) de RIS9 (x2) V //4532 kHz | CW | (F5JBR) |
| **M89** | 4532 | 17-2 | 1421 | Fri | M8JF (x3) de RIS9 (x2) V //3777 kHz | CW | (F5JBR) |
| **M89** | 7602 | 17-2 | 1508 | Fri | DKG6 de 3A7D V | CW | (F5JBR) |
| **M89** | 3777 | 17-2 | 1809 | Fri | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 17-2 | 1809 | Fri | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 3642 | 17-2 | 1811 | Fri | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 4060 | 17-2 | 1814 | Fri | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 4609 | 17-2 | 1814 | Fri | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 4860 | 17-2 | 1820 | Fri | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 17-2 | 1820 | Fri | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 17-2 | 1830 | Fri | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3777 | 18-2 | 1100 | Sat | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 18-2 | 1100 | Sat | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 5801 | 18-2 | 1102 | Sat | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 18-2 | 1102 | Sat | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 5825 | 18-2 | 1103 | Sat | i.p. 34U5 7T67 5U35 ... III A | CW | (JPL) |
| **M89** | 4060 | 18-2 | 1108 | Sat | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 18-2 | 1108 | Sat | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 5591 | 18-2 | 1110 | Sat | i.p. HR MSG GA GA K. HR MSG NR 6.25 CK 200 .3 0218 190. RMKS 811. TO 8520 K. R GA K | CW | (JPL) |
| **M89** | 4860 | 19-2 | 1020 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 19-2 | 1020 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 8350 | 19-2 | 1030 | Sun | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 5801 | 19-2 | 1035 | Sun | V DKG6 (x3) DE 3A7D (x2) //10180) | CW | (JPL) |
| **M89** | 10180 | 19-2 | 1035 | Sun | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 3777 | 19-2 | 1037 | Sun | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 19-2 | 1037 | Sun | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 19-2 | 1038 | Sun | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |

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|---|---|---|---|---|---|---|---|
| **M89** | 4609 | 19-2 | 1038 | Sun | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 4720 | 19-2 | 1130 | Sun | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 4131 | 19-2 | 1156 | Sun | i.p. RMKS CQ = F2Z/UG3 AR QSL ? OK QSL .. 15 K | CW | (JPL) |
| **M89** | 4609 | 19-2 | 1429 | Sun | FIK3 (x3) de H4JH (x2) V | CW | (F5JBR) |
| **M89** | 4060 | 19-2 | 1432 | Sun | TR2Q (x3) de 5TUH (x2) V | CW | (F5JBR) |
| **M89** | 4860 | 19-2 | 1520 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 19-2 | 1520 | Sun | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 3642 | 19-2 | 1525 | Sun | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 19-2 | 1525 | Sun | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4131 | 19-2 | 1527 | Sun | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 4720 | 19-2 | 1530 | Sun | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 6793 | 20-2 | 0027 | Mon | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 20-2 | 0027 | Mon | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 4060 | 20-2 | 1025 | Mon | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 20-2 | 1025 | Mon | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3777 | 20-2 | 1027 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 20-2 | 1027 | Mon | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 5801 | 20-2 | 1034 | Mon | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 20-2 | 1034 | Mon | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 5831 | 20-2 | 1041 | Mon | VV Y4NJ DE O2KZ K. R CQ R CY HW K. RPT K. R 2P 04W BT 77UT AR K | CW | (JPL) |
| **M89** | 4860 | 20-2 | 1120 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 6840 | 20-2 | 1120 | Mon | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 20-2 | 1130 | Mon | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3642 | 20-2 | 1913 | Mon | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 20-2 | 1913 | Mon | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 5104 | 20-2 | 1919 | Mon | N6AR i.p. 76A3 N7TU TATD ... AR OK ? PSE 45 RPT 2P 55W BT BT 7NUN 43D4 UATN T555 ... | CW | (JPL) |
| **M89** | 5801 | 21-2 | 1028 | Tue | V DKG6 (x3) DE 3A7D (x2) //10180 | CW | (JPL) |
| **M89** | 10180 | 21-2 | 1028 | Tue | V DKG6 (x3) DE 3A7D (x2) //5801 | CW | (JPL) |
| **M89** | 4060 | 21-2 | 1030 | Tue | V TR2Q (x3) DE 5TUH (x2) | CW | (JPL) |
| **M89** | 4609 | 21-2 | 1030 | Tue | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 8350 | 21-2 | 1030 | Tue | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3777 | 21-2 | 1035 | Tue | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 21-2 | 1035 | Tue | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 5104 | 21-2 | 1039 | Tue | VV B5SJ DE DE NBAR K | CW | (JPL) |
| **M89** | 5081 | 21-2 | 1049 | Tue | VV WKY9 VV WKY9 VV WKY9 DE DOG5 DOG5 V | CW | (JPL) |
| **M89** | 5285 | 21-2 | 1053 | Tue | i.p. 6UA3 5D3N 756U DA5T ... | CW | (JPL) |
| **M89** | 5400 | 21-2 | 1055 | Tue | i.p. AN65 U74D T7U5 | CW | (JPL) |
| **M89** | 5233 | 21-2 | 1110 | Tue | i.p. 3NTA 436N DTN7 | CW | (JPL) |
| **M89** | 5481 | 21-2 | 1119 | Tue | i.p. 6TAN 53.5 U64T NTN5 | CW | (JPL) |
| **M89** | 4860 | 21-2 | 1120 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840 | CW | (JPL) |
| **M89** | 6840 | 21-2 | 1120 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 21-2 | 1130 | Tue | VVV WNF DE FXM QSA ? QSV K //5150 | CW | (JPL) |
| **M89** | 5150 | 21-2 | 1130 | Tue | V WNF (x3) DE FXM (x2) QSA ? QSV K //4720 | CW | (JPL) |
| **M89** | 5523 | 21-2 | 1226 | Tue | i.p. 2017 = .NJ/SGS AR K | CW | (JPL) |
| **M89** | 5792 | 21-2 | 1500 | Tue | i.p. AR K | CW | (JPL) |

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| **M89** | 4532 | 21-2 | 1503 | Tue | M8JF (x3) de RIS9 (x2) V | CW | (F5JBR) |
| **M89** | 3642 | 21-2 | 1513 | Tue | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 21-2 | 1513 | Tue | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4860 | 21-2 | 1520 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840 | CW | (JPL) |
| **M89** | 6840 | 21-2 | 1520 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 | CW | (JPL) |
| **M89** | 4720 | 21-2 | 1530 | Tue | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 5150 | 21-2 | 1530 | Tue | V WNF (x3) DE FXM (x2) QSA ? QSV K //4720 | CW | (JPL) |
| **M89** | 4131 | 21-2 | 1536 | Tue | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 8060 | 22-2 | 0212 | Wed | V M8JF (x3) DE RIS9 (x2) //N/H | CW | (JPL) |
| **M89** | 10180 | 22-2 | 0540 | Wed | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 7602 | 22-2 | 1310 | Wed | DKG6 de 3A7D V | CW | (F5JBR) |
| **M89** | 4060 | 22-2 | 1343 | Wed | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 4609 | 22-2 | 1343 | Wed | V FIK3 (x3) DE H4JH (x2 | CW | (JPL) |
| **M89** | 3777 | 22-2 | 1344 | Wed | V M8JF (x3) DE RIS9 (x2) //4532 and 8060 | CW | (JPL) |
| **M89** | 4532 | 22-2 | 1344 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 and 8060 | CW | (JPL) |
| **M89** | 8060 | 22-2 | 1344 | Wed | V M8JF (x3) DE RIS9 (x2) //3777 and 4532 | CW | (JPL) |
| **M89** | 3642 | 22-2 | 1350 | Wed | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 22-2 | 1350 | Wed | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4131 | 22-2 | 1712 | Wed | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 6793 | 22-2 | 2233 | Wed | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 22-2 | 2233 | Wed | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 6793 | 23-2 | 0758 | Thu | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 23-2 | 0758 | Thu | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 10178 | 23-2 | 0800 | Thu | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 10640 | 23-2 | 0820 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) | CW | (JPL) |
| **M89** | 4620 | 23-2 | 1220 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 and 6840 | CW | (JPL) |
| **M89** | 4860 | 23-2 | 1220 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4620 and 6840 | CW | (JPL) |
| **M89** | 6840 | 23-2 | 1220 | Thu | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4620 and 4869 | CW | (JPL) |
| **M89** | 4060 | 23-2 | 1225 | Thu | V TR2Q (x3) DE 5TUH (x2 | CW | (JPL) |
| **M89** | 4609 | 23-2 | 1225 | Thu | V FIK3 (x3) DE H4JH (x2) | CW | (JPL) |
| **M89** | 3777 | 23-2 | 1228 | Thu | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 23-2 | 1228 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 3642 | 23-2 | 1229 | Thu | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 23-2 | 1229 | Thu | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 4720 | 23-2 | 1230 | Thu | VVV WNF DE FXM QSA ? QSV K //5150 | CW | (JPL) |
| **M89** | 5150 | 23-2 | 1230 | Thu | VVV WNF DE FXM QSA ? QSV K //4720 | CW | (JPL) |
| **M89** | 5120 | 23-2 | 1233 | Thu | i.p. NR 320 HR NR 320 NIL SK NIL SK | CW | (JPL) |
| **M89** | 5212 | 23-2 | 1236 | Thu | i.p. 015 TO 7009 = T2/TOU AR K | CW | (JPL) |
| **M89** | 4131 | 23-2 | 1744 | Thu | JKDJ (x3) de SLBC (x2) V | CW | (F5JBR) |
| **M89** | 4131 | 23-2 | 2205 | Thu | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3642 | 23-2 | 2207 | Thu | V DKG6 (x3) DE 3A7D (x2) //7602 | CW | (JPL) |
| **M89** | 7602 | 23-2 | 2207 | Thu | V DKG6 (x3) DE 3A7D (x2) //3642 | CW | (JPL) |
| **M89** | 3777 | 23-2 | 2208 | Thu | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 23-2 | 2208 | Thu | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 3642 | 24-2 | 0322 | Fri | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 6053 | 24-2 | 0946 | Fri | V TR2Q (x3) DE 5TUH (x2) //10178 | CW | (JPL) |
| **M89** | 10178 | 24-2 | 0946 | Fri | V FIK3 (x3) DE H4JH (x2) //6053 | CW | (JPL) |
| **M89** | 10180 | 24-2 | 0949 | Fri | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 24-2 | 0950 | Fri | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |

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| **M89** | 4532 | 24-2 | 0950 | Fri | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 6840 | 24-2 | 1020 | Fri | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640 | CW | (JPL) |
| **M89** | 10640 | 24-2 | 1020 | Fri | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 | CW | (JPL) |
| **M89** | 8350 | 24-2 | 1030 | Fri | VVV WNF DE FXM QSA ? QSV K | CW | (JPL) |
| **M89** | 3642 | 24-2 | 2248 | Fri | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 4060 | 24-2 | 2250 | Fri | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 24-2 | 2250 | Fri | V FIK3 (x3) DE H4JH (x2) //4060 | CW | (JPL) |
| **M89** | 3777 | 24-2 | 2252 | Fri | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 24-2 | 2252 | Fri | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 6793 | 25-2 | 0018 | Sat | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 25-2 | 0018 | Sat | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 6053 | 25-2 | 0024 | Sat | V TR2Q (x3) DE 5TUH (x2) //10178 | CW | (JPL) |
| **M89** | 10178 | 25-2 | 0024 | Sat | V FIK3 (x3) DE H4JH (x2) //6053 | CW | (JPL) |
| **M89** | 6793 | 25-2 | 0715 | Sat | V M8JF (x3) DE RIS9 (x2) //8060 | CW | (JPL) |
| **M89** | 8060 | 25-2 | 0715 | Sat | V M8JF (x3) DE RIS9 (x2) //6793 | CW | (JPL) |
| **M89** | 6053 | 25-2 | 0753 | Sat | V TR2Q (x3) DE 5TUH (x2) //10178 | CW | (JPL) |
| **M89** | 4131 | 25-2 | 1611 | Sat | V JKDJ JKDJ JKDJ DE SLBC SLBC | CW | (F5JBR-J) |
| **M89** | 3777 | 25-2 | 1622 | Sat | V M8JF M8JF M8JF DE RIS9 RIS9 //4532 kHz | CW | (F5JBR-J) |
| **M89** | 4532 | 25-2 | 1622 | Sat | V M8JF M8JF M8JF DE RIS9 RIS9 //3777 kHz | CW | (F5JBR-J) |
| **M89** | 10178 | 25-2 | 753 | Sat | V FIK3 (x3) DE H4JH (x2) //6053 | CW | (JPL) |
| **M89** | 7602 | 27-2 | 1856 | Mon | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 27-2 | 1858 | Mon | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 27-2 | 1858 | Mon | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 27-2 | 1900 | Mon | V TR2Q (x3) DE 5TUH (x2) //4609 | CW | (JPL) |
| **M89** | 4609 | 27-2 | 1900 | Mon | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 4131 | 27-2 | 1903 | Mon | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 4131 | 28-2 | 1445 | Tue | V JKDJ (x3) DE SLBC (x2) | CW | (JPL) |
| **M89** | 3642 | 28-2 | 1446 | Tue | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M89** | 3777 | 28-2 | 1448 | Tue | V M8JF (x3) DE RIS9 (x2) //4532 | CW | (JPL) |
| **M89** | 4532 | 28-2 | 1448 | Tue | V M8JF (x3) DE RIS9 (x2) //3777 | CW | (JPL) |
| **M89** | 4060 | 28-2 | 1449 | Tue | 5TUH i.p. MSG NR 11. CK .. .. 0228 2230 | CW | (JPL) |
| **M89** | 4609 | 28-2 | 1449 | Tue | V TR2Q (x3) DE 5TUH (x2) //4060 | CW | (JPL) |
| **M89** | 4860 | 28-2 | 1520 | Tue | VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) | CW | (JPL) |
| **M89** | 4720 | 28-2 | 1530 | Tue | VVV WNF DE FXM QSA ? QSV K //5150 | CW | (JPL) |
| **M89** | 5150 | 28-2 | 1530 | Tue | VVV WNF DE FXM QSA ? QSV K //4720 | CW | (JPL) |
| **M89** | 7602 | 28-2 | 1711 | Tue | V DKG6 (x3) DE 3A7D (x2) | CW | (JPL) |
| **M90** | 3388 | 20-2 | 0438 | Mon | K8FP wkg MHL4, K8D8, G6CS, AR4L, JB5F (collective c/s) | CW | (F5JBR) |
| **M90** | 4972 | 20-2 | 0609 | Mon | M5L5 wkg K8FP, K8D8, G6CS, AR4L, JBF5 (collective c/s) | CW | (F5JBR) |
| **M90** | 5375 | 20-2 | 0657 | Mon | M5L5 wkg K8FP, K8D8, G6CS, AR4L, JBF5 (collective c/s) | CW | (F5JBR) |
| **M90** | 3388 | 20-2 | 1830 | Mon | TLR2 wkg U8D8, G6CS, JBF5 (collective c/s) | CW | (F5JBR) |
| **M90** | 3388 | 21-2 | 0700 | Tue | TLR2 wkg U8D8, G6CS, collective c/s JBF5 | CW | (F5JBR) |
| **M90** | 3388 | 21-2 | 0700 | Tue | TLR2 wkg U8D8, G6CS | CW | (F5JBR) |
| **M90** | 4852 | 21-2 | 0732 | Tue | CQXJ wkg XVSQ, PBFJ, EGK6, SVNX, MXV5, ICFV, PJP6 | CW | (F5JBR) |
| **M90** | 4852 | 21-2 | 0732 | Tue | CQXJ radio checks with XVSQ, PBFJ, EGK6, SVNX, MXV5, ICFV, PJP6 | CW | (F5JBR) |
| **M90** | 3328 | 28-2 | 0632 | Tue | CQXJ wkg V7Z6 | CW | (F5JBR-AUT) |
| **M90** | 4852 | 28-2 | 0803 | Tue | CQXJ wkg XVSQ, PBFJ, EGK6, SVNX, MXV5, ICFV, PJP6 | CW | (F5JBR-AUT) |

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|---|---|---|---|---|---|---|---|
| **M90v** | 3388 | 21-2 | 0911 | Tue | Voice traffic. Stations Drak-45, Honec-74, Vatra-50, Obora-83. Messages: Iluze 934 and Repas 389 | USB | (F5JBR) |
| **M90v** | 3388 | 21-2 | 0911 | Tue | Radio checks | USB | (F5JBR) |
| **M90v** | 4852 | 21-2 | 0930 | Tue | Voice traffic. Stations Pohyb-82, Vzor-60, Zeta-58, Matan-35 | USB | (F5JBR) |
| **M90v** | 4852 | 21-2 | 0930 | Tue | Radio checks | USB | (F5JBR) |
| **M90v** | 4852 | 28-2 | 0955 | Tue | OBORA-83 radio checks with Vera-71, Brak-45, Honec-74, Vatra-50, Rytec-79, Garaz-71 | USB | (F5JBR) |
| **M95** | 7553 | 1-2 | 0941 | Wed | 3AN 353 37U 4T6 445 N3D 446 ... A HR MSG GA NR 094 CK 114 35 0201 0713 N37 UT3 TTA 3U4 3A4 ... //9153 kHz | CW | (JPL-NZL) |
| **M95** | 9153 | 1-2 | 0941 | Wed | 3AN 353 37U 4T6 445 N3D 446 ... A HR MSG GA NR 094 CK 114 35 0201 0713 N37 UT3 TTA 3U4 3A4 ... //7553 kHz | CW | (JPL-NZL) |
| **M95** | 7553 | 2-2 | 1335 | Thu | i.p. 445 N3D 447 46D ... 7G AGN NR 099 CK 235 35 0202 1630 N37 UT3 TTU 3U6 TTU ... //9153 kHz | CW | (JPL-NZL) |
| **M95** | 9153 | 2-2 | 1335 | Thu | i.p. 445 N3D 447 46D ... 7G AGN NR 099 CK 235 35 0202 1630 N37 UT3 TTU 3U6 TTU ... //7553 kHz | CW | (JPL-NZL) |
| **M95** | 4364 | 7-2 | 1140 | Tue | V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0131 CK 320 35 0207 1551 = TT7 3U. ..3U7 TAU //8073 kHz | CW | (JPL-NZL) |
| **M95** | 8073 | 7-2 | 1140 | Tue | V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0131 CK 320 35 0207 1551 = TT7 3U. ..3U7 TAU //4364 kHz | CW | (JPL-NZL) |
| **M95** | 4364 | 9-2 | 1140 | Thu | V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0138 CK 4A 35 0209 A528 = TTU N5U TTN N53 TAD N54 ... //8073 kHz | CW | (JPL-NZL) |
| **M95** | 8073 | 9-2 | 1140 | Thu | V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0138 CK 4A 35 0209 A528 = TTU N5U TTN N53 TAD N54 ... //4364 kHz | CW | (JPL-NZL) |
| **M95** | 4243 | 9-2 | 1149 | Thu | i.p. 446 467 3DU TUU TT3 773 447 ... AR 7G AGN NR 004 CK 22 35 0209 1521 = //9054 kHz | CW | (JPL-NZL) |
| **M95** | 9054 | 9-2 | 1149 | Thu | i.p. 446 467 3DU TUU TT3 773 447 ... AR 7G AGN NR 004 CK 22 35 0209 1521 = //4243 kHz | CW | (JPL-NZL) |
| **M95** | 4688 | 11-2 | 1237 | Sat | 05 05 05 U 7G GA U 7G GA K. R GA K. R RPT 8W K. R QSL 2048 K | CW | (JPL-NZL) |
| **M95** | 4283 | 12-2 | 1327 | Sun | i.p. TTN 773 3AD 35. U46 353 ... 7G AGN NR 129 CK 189 35 0212 1619 ... | CW | (JPL-J) |
| **M95** | 4243 | 12-2 | 2347 | Sun | i.p. 4TA U7U N4A 444 3D. TTU TT3 773 ... AR | CW | (JPL-J) |
| **M95** | 7553 | 13-2 | 0942 | Mon | i.p. 773 355 4UT 445 4D6 ... ZNN SK | CW | (JPL-J) |
| **M95** | 4364 | 13-2 | 1130 | Mon | V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0154 CK 319 35 0UA3 A557 = TA3 3U6 ... //8073 kHz | CW | (JPL-J) |
| **M95** | 8073 | 13-2 | 1130 | Mon | V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0154 CK 319 35 0UA3 A557 = TA3 3U6 ... //4363 kHz | CW | (JPL-J) |
| **M95** | 4243 | 13-2 | 1140 | Mon | V HR 7G TO YR PSE CY NR 012 CK 19 35 0213 1558 = 5TD UTT TA3 3U6 3A4 35U 4TA N3D 4TN U7U ... //9054 kHz | CW | (JPL-J) |
| **M95** | 9054 | 13-2 | 1140 | Mon | V HR 7G TO YR PSE CY NR 012 CK 19 35 0213 1558 = 5TD UTT TA3 3U6 3A4 35U 4TA N3D 4TN U7U ... //4243 kHz | CW | (JPL-J) |

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|---|---|---|---|---|---|---|---|
| **M95** | 4243 | 13-2 | 2347 | Mon | V A HR 7G TO YR PSE CY NR 013 CK 19 35 0214 063. = | CW | (JPL-J) |
| **M95** | 4243 | 14-2 | 0911 | Tue | i.p. 446 4D3 3DA N3D ... AR A HR UP SB WK | CW | (JPL-NZL) |
| **M95** | 7553 | 14-2 | 0947 | Tue | i.p. 353 4T3 445 4D6 3DU TAU 773 ... ZNN SK | CW | (JPL-NZL) |
| **M95** | 5566 | 14-2 | 0959 | Tue | i.p. 18/CCK CK 61 47 0214 1800 RMKS 3773 TO 2583 = 53TN A5N5 7A7A 53D3 TUNU 665A ... | CW | (JPL-NZL) |
| **M95** | 5566 | 16-2 | 1414 | Thu | i.p. QSA 3 QSA ? K 7G TO U PSE .G ... | CW | (JPL-NZL) |
| **M95** | 8073 | 19-2 | 1139 | Sun | V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0171 CK 214 35 0219 1551 = TAD 3U6 3AN 3U7 TAU ... | CW | (JPL-NZL) |
| **M95** | 4243 | 19-2 | 1150 | Sun | VVV HR 7G TO YR PSE CY NR 024 CK 29 35 0219 1513 = 5TD UTT ... //9054 kHz | CW | (JPL-NZL) |
| **M95** | 9054 | 19-2 | 1150 | Sun | VVV HR 7G TO YR PSE CY NR 024 CK 29 35 0219 1513 = 5TD UTT ... //4243 kHz | CW | (JPL-NZL) |
| **M95** | 4364 | 20-2 | 1136 | Mon | V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0173 CK 225 35 0220 1523 = T.T 3U6 3U7 TAU 773 //8073 kHz | CW | (JPL-NZL) |
| **M95** | 8073 | 20-2 | 1136 | Mon | V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0173 CK 225 35 0220 1523 = T.T 3U6 3U7 TAU 773 //4364 kHz | CW | (JPL-NZL) |
| **M95** | 4243 | 20-2 | 1148 | Mon | V HR MSG TO YR PSE CY NR 026 CK 35 35 0220 1521 = 5TD UTT TUT 3U6 7TA N44 3A4 353 4TA N3D ... //9054 kHz | CW | (JPL-NZL) |
| **M95** | 9054 | 20-2 | 1148 | Mon | V HR MSG TO YR PSE CY NR 026 CK 35 35 0220 1521 = 5TD UTT TUT 3U6 7TA N44 3A4 353 4TA N3D ... //4243 kHz | CW | (JPL-NZL) |
| **M95** | 4364 | 21-2 | 1138 | Tue | V BNGC (x3) DE XSV85 (x2) A HR MSGS GA PSE CY NR 0175 CK 39 35 0221 1523 = TTU N5U TUA N53 TT6 ... //8073 kHz | CW | (JPL-NZL) |
| **M95** | 8073 | 21-2 | 1138 | Tue | V BNGC (x3) DE XSV85 (x2) A HR MSGS GA PSE CY NR 0175 CK 39 35 0221 1523 = TTU N5U TUA N53 TT6 ... //4364 kHz | CW | (JPL-NZL) |
| **M95** | 4243 | 21-2 | 1148 | Tue | VV HR MSG TO YR PSE CY NR 018 20 35 0221 1526 5TD UTT TUA 3U6 3A4 354 37D 4T7 N3D 4TA //9054 kHz | CW | (JPL-NZL) |
| **M95** | 9054 | 21-2 | 1148 | Tue | VV HR MSG TO YR PSE CY NR 018 20 35 0221 1526 5TD UTT TUA 3U6 3A4 354 37D 4T7 N3D 4TA //4243 kHz | CW | (JPL-NZL) |
| **M95** | 4243 | 23-2 | 1156 | Thu | i.p. N3U 445 3UN 357 4TA 34A N3D ... AR 7G AGN NR 46 CK 154 35 0223 1500 = UTU ... //9054 kHz | CW | (F5JBR) |
| **M95** | 9054 | 23-2 | 1156 | Thu | i.p. N3U 445 3UN 357 4TA 34A N3D ... AR 7G AGN NR 46 CK 154 35 0223 1500 = UTU ... //4243 kHz | CW | (F5JBR) |
| **M95** | 5120 | 28-2 | 1534 | Tue | i.p. RMKS 0079 TO 2047 5023 0221 2376 0357 = ANT4 345U DU7... | CW | (JPL-J) |
| **MX** | 5154 | 1-2 | 0003 | Wed | Beacon C | CW | (GNL) |
| **MX** | 5156.9 | 1-2 | 0003 | Wed | Beacon L | CW | (GNL) |
| **MX** | 5154 | 4-2 | 0023 | Sat | Beacon C | CW | (GNL) |
| **MX** | 5156.9 | 4-2 | 0024 | Sat | Beacon L | CW | (GNL) |
| **MX** | 3335 | 4-2 | 0032 | Sat | Beacon V | CW | (GNL) |
| **MX** | 3594 | 4-2 | 0035 | Sat | Beacon C | CW | (GNL) |
| **MX** | 3593.8 | 4-2 | 2149 | Sat | Beacon D, Sevastopol | CW | (AB) |
| **MX** | 3594 | 4-2 | 2149 | Sat | Beacon C, Moscow | CW | (AB) |
| **MX** | 5154.2 | 7-2 | 1408 | Tue | Beacon F, Vladivostok | CW | (F5JBR) |
| **MX** | 5154.4 | 7-2 | 1408 | Tue | Beacon M, Magadan | CW | (F5JBR) |

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| **MX** | 5156.8 | 7-2 | 1809 | Tue | Beacon L | CW | (AB) |
| **MX** | 16331.7 | 9-2 | 1344 | Thu | Beacon D, Sevastopol | CW | (RL-HOL) |
| **MX** | 20048.4 | 14-2 | 0605 | Tue | Beacon F, Vladivostok, slightly off freq | CW | (EW) |
| **MX** | 20048.4 | 15-2 | 0725 | Wed | Beacon F, Vladivostok (Off frequency) | CW | (EW) |
| **MX** | 13528.4 | 15-2 | 0735 | Wed | Beacon M, Magadan | CW | (EW) |
| **Q26** | 7553 | 2-2 | 1914 | Thu | Messages //9153 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 9153 | 2-2 | 1914 | Thu | Messages //7553 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 7553 | 4-2 | 1303 | Sat | Messages //9153 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 9153 | 4-2 | 1303 | Sat | Messages //7553 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4433 | 7-2 | 1124 | Tue | Messages | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4364 | 7-2 | 1131 | Tue | Messages //8073 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 8073 | 7-2 | 1131 | Tue | Messages //4364 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4364 | 9-2 | 1131 | Thu | Messages //8073 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 8073 | 9-2 | 1131 | Thu | Messages //4364 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4433 | 12-2 | 2306 | Sun | i.p. XKGN XDFN XKGN DE ZWVN ZWVN ZWVN QSA ? /// JCPRMKKQR KFOQJN-JJIYYXYXY XKGN XXFN XKGN DE ZWVN ZWVN ZWVN QSA ? /// | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 4243 | 12-2 | 2342 | Sun | Messages | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 4363 | 13-2 | 1131 | Mon | Messages //8073 kHz | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 8073 | 13-2 | 1131 | Mon | Messages //4364 kHz | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 4243 | 13-2 | 1141 | Mon | Messages //9054 kHz | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 9054 | 13-2 | 1141 | Mon | Messages //4243 kHz | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 4243 | 13-2 | 2342 | Mon | Messages | 4+4 QPSK 75/3000 LSB | (JPL-J) |
| **Q26** | 8073 | 19-2 | 1130 | Sun | Messages | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4243 | 19-2 | 1146 | Sun | Messages //9054 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 9054 | 19-2 | 1146 | Sun | Messages //4243 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4364 | 20-2 | 1130 | Mon | Messages //8073 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 8073 | 20-2 | 1130 | Mon | Messages //4364 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4243 | 20-2 | 1143 | Mon | Messages //9054 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 9054 | 20-2 | 1143 | Mon | Messages //4243 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4364 | 21-2 | 1135 | Tue | Messages //8073 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 8073 | 21-2 | 1135 | Tue | Messages //4364 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **Q26** | 4243 | 21-2 | 1143 | Tue | Messages //9054 kHz | 4+4 QPSK 75/3000 | (JPL-NZL) |

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|---|---|---|---|---|---|---|---|
| | | | | | | LSB | |
| **Q26** | 9054 | 21-2 | 1143 | Tue | Messages //4243 kHz | 4+4 QPSK 75/3000 LSB | (JPL-NZL) |
| **S06** | 15614 | 2-2 | 0930 | Thu | 842 569 30 05201 49877 21251 ... 71713 05623 27187 569 30 00000 | USB | (AB/HFD-HK) |
| **S06** | 7607 | 3-2 | 1900 | Fri | 514 514 514 00000 | USB | (AB) |
| **S06** | 5412 | 3-2 | 2000 | Fri | 514 514 514 00000 | USB | (AB) |
| **S06** | 6946 | 4-2 | 1615 | Sat | Unscheduled txm: 409 367 25 36857 72466 11763 ... 89819 97940 04009 367 25 00000 | USB | (qsr711) |
| **S06** | 4012 | 4-2 | 2000 | Sat | 913 913 913 00000 | USB | (AB/MPJ) |
| **S06** | 3398 | 4-2 | 2100 | Sat | 913 913 913 00000 | USB | (AB) |
| **S06** | 9463 | 7-2 | 1000 | Tue | 480 752 41 77479 03752 ..... 73310 61447 00000 | USB | (ES) |
| **S06** | 12164 | 7-2 | 1036 | Tue | 480 752 41 77479 03752 ..... 73310 61447 00000 | USB | (ES) |
| **S06** | 12164 | 7-2 | 1042 | Tue | i.p. just got the end: 41 00000 | USB | (AB) |
| **S06** | 9337 | 7-2 | 1230 | Tue | 480 752 41 77479 03752 ..... 73310 61447 00000 | USB | (ES) |
| **S06** | 8077 | 7-2 | 1300 | Tue | 480 752 41 77479 03752 ..... 73310 61447 00000 | USB | (ES) |
| **S06** | 15614 | 9-2 | 0930 | Thu | 842 970 31 12028 67703 72478 ... 81905 46390 91400 970 31 00000 | USB | (AB) |
| **S06** | 9463 | 14-2 | 1000 | Tue | 480 712 44 52066 01630 ..... 13963 73321 712 44 00000 | USB | (ES) |
| **S06** | 9337 | 14-2 | 1230 | Tue | 480 712 44 52066 01630 ..... 13963 73321 712 44 00000 | USB | (ES) |
| **S06** | 8077 | 14-2 | 1300 | Tue | 480 712 44 52066 01630 ..... 13963 73321 712 44 00000 | USB | (ES) |
| **S06** | 17440 | 16-2 | 0830 | Thu | 842 156 32 34814 18046 15576 ... 32774 70858 21768 156 32 00000 | USB | (AB-J) |
| **S06** | 15614 | 16-2 | 0930 | Thu | 842 156 32 34814 18046 15576 ... 32774 70858 21768 156 32 00000 | USB | (AB-J) |
| **S06** | 17440 | 17-2 | 0830 | Fri | 842 156 32 34814 18046 15576 ... 32774 70858 21768 156 32 00000 | USB | (AB) |
| **S06** | 15614 | 17-2 | 0930 | Fri | 842 156 32 34814 18046 15576 ... 32774 70858 21768 156 32 00000 | USB | (AB) |
| **S06** | 7607 | 17-2 | 1900 | Fri | 514 514 541 00000 | USB | (AB/MPJ) |
| **S06** | 5412 | 17-2 | 2000 | Fri | 514 514 514 00000 | USB | (AB) |
| **S06** | 4012 | 18-2 | 2000 | Sat | 913 913 913 00000 | USB | (AB) |
| **S06** | 15721 | 23-2 | 0400 | Thu | 480 513 60 48667 via GT | USB | (HFD-HK) |
| **S06** | 9463 | 28-2 | 1000 | Tue | 480 129 45 26968 41395 63128 ... 72465 94685 14422 129 45 00000 | USB | (ES) |
| **S06** | 7353 | 28-2 | 1030 | Tue | 480 129 45 26968 41395 63128 ... 72465 94685 14422 129 45 00000 | USB | (ES) |
| **S06** | 9337 | 28-2 | 1230 | Tue | 480 129 45 26968 41395 63128 ... 72465 94685 14422 129 45 00000 | USB | (ES) |
| **S06** | 8077 | 28-2 | 1300 | Tue | 480 129 45 26968 41395 63128 ... 72465 94685 14422 129 45 00000 | USB | (ES) |
| **S06s** | 8417 | 1-2 | 0820 | Wed | 471 935 6 43334 30147 30494 43014 81015 46544 935 6 00000 | USB | (AB/ES) |
| **S06s** | 7062 | 1-2 | 0830 | Wed | 464 951 7 82333 36958 39423 48076 33739 43384 33898 951 7 00000 | USB | (AB/ES) |
| **S06s** | 9262 | 1-2 | 0830 | Wed | 471 935 6 43334 30147 30494 43014 81015 46544 935 6 00000 | USB | (AB) |
| **S06s** | 11535 | 1-2 | 0830 | Wed | 745 908 6 34645 31830 33885 42384 35438 80044 908 6 00000 | USB | (AB/ES) |
| **S06s** | 10532 | 1-2 | 0840 | Wed | 464 951 7 82333 36958 39423 48076 33739 43384 33898 951 7 00000 | USB | (AB) |

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| **S06s** | 11830 | 1-2 | 0840 | Wed | 745 908 6 34645 31830 33885 42384 35438 80044 908 6 00000 | USB | (AB) |
| **S06s** | 12365 | 1-2 | 1000 | Wed | 729 830 5 13193 32521 36333 91530 64794 830 5 00000 | USB | (AB) |
| **S06s** | 14280 | 1-2 | 1010 | Wed | 729 830 5 13193 32521 36333 91530 64794 830 5 00000 | USB | (AB/ES) |
| **S06s** | 8812 | 2-2 | 0930 | Thu | 314 259 6 40244 36012 38323 47552 43630 40846 259 6 00000 | USB | (AB/ES) |
| **S06s** | 9540 | 2-2 | 0940 | Thu | 314 259 6 40244 36012 38323 47552 43630 40846 259 6 00000 | USB | (AB) |
| **S06s** | 12155 | 2-2 | 1200 | Thu | 425 918 6 92325 36615 36491 49588 41061 83354 918 6 00000 | USB | (AB) |
| **S06s** | 10920 | 2-2 | 1210 | Thu | 425 918 6 92325 36615 36491 49588 41061 83354 918 6 00000 | USB | (AB/ES) |
| **S06s** | 5765 | 3-2 | 0900 | Fri | 624 509 7 31492 34793 31365 46933 35868 47892 37858 509 7 00000 | USB | (AB) |
| **S06s** | 6315 | 3-2 | 0910 | Fri | 624 509 7 31492 34793 31365 46933 35868 47892 37858 509 7 00000 | USB | (AB) |
| **S06s** | 11780 | 3-2 | 0930 | Fri | 516 420 7 31829 47694 45680 45089 32417 39736 35697 420 7 00000 | USB | (AB) |
| **S06s** | 12570 | 3-2 | 0940 | Fri | 516 420 7 31829 47694 45680 45089 32417 39736 35697 420 7 00000 | USB | (AB) |
| **S06s** | 8680 | 4-2 | 0800 | Sat | 254 837 6 49294 38064 31724 37324 39316 46660 837 6 00000 | USB | (AB/ES) |
| **S06s** | 8260 | 4-2 | 0810 | Sat | 254 837 6 49294 38064 31724 37324 39316 46660 837 6 00000 | USB | (AB) |
| **S06s** | 13470 | 5-2 | 0630 | Sun | 524 961 7 39382 45739 49645 32975 45356 49396 39265 961 7 00000 | USB | (AB) |
| **S06s** | 16515 | 5-2 | 0640 | Sun | 524 961 7 39382 45739 49645 32975 45356 49396 39265 961 7 00000 | USB | (AB) |
| **S06s** | 8057 | 6-2 | 0830 | Mon | 371 405 6 47694 45680 45089 32417 39736 35697 405 6 00000 | USB | (AB) |
| **S06s** | 8530 | 6-2 | 0840 | Mon | 371 405 6 47694 45680 45089 32417 39736 35697 405 6 00000 | USB | (AB) |
| **S06s** | 14675 | 6-2 | 0900 | Mon | 872 954 6 32391 38632 35044 41354 31663 41731 954 6 00000 | USB | (AB) |
| **S06s** | 12830 | 6-2 | 0910 | Mon | 872 954 6 32391 38632 35044 41354 31663 41731 954 6 00000 | USB | (AB) |
| **S06s** | 8420 | 6-2 | 1300 | Mon | 831 270 5 32382 38053 33231 42923 42032 270 5 00000 | USB | (AB/MPJ) |
| **S06s** | 10635 | 6-2 | 1310 | Mon | 831 270 5 32382 38053 33231 42923 42032 270 5 00000 | USB | (AB/MPJ) |
| **S06s** | 14240 | 7-2 | 0610 | Tue | 438 206 5 39742 23416 45268 47504 31287 206 5 00000 | USB | (AB) |
| **S06s** | 5250 | 7-2 | 0700 | Tue | 374 819 5 37947 39747 31323 31829 47967 819 5 00000 | USB | (AB) |
| **S06s** | 6320 | 7-2 | 0715 | Tue | 374 819 5 37947 39747 31323 31829 47967 819 5 00000 | USB | (AB) |
| **S06s** | 7410 | 7-2 | 0730 | Tue | 427 896 5 33699 39998 30667 35947 83964 896 5 00000 | USB | (AB) |
| **S06s** | 11532 | 7-2 | 0740 | Tue | 427 896 5 33699 39998 30667 35947 83964 896 5 00000 | USB | (AB) |
| **S06s** | 11945 | 7-2 | 0800 | Tue | 352 496 7 44475 30322 36034 35445 44008 38453 48324 496 7 00000 | USB | (AB) |
| **S06s** | 13195 | 7-2 | 0810 | Tue | 352 496 7 44475 30322 36034 35445 44008 38453 48324 496 7 00000 | USB | (AB) |
| **S06s** | 6440 | 7-2 | 1000 | Tue | 893 401 5 43637 41341 47217 30487 34053 401 5 00000 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| **S06s** | 5660 | 7-2 | 1010 | Tue | 893 401 5 43637 41341 47217 30487 34053 401 5 00000 | USB | (AB) |
| **S06s** | 5035 | 7-2 | 1100 | Tue | 754 930 6 37184 36129 33983 83321 81235 32469 930 6 00000 | USB | (AB) |
| **S06s** | 5975 | 7-2 | 1110 | Tue | 754 930 6 37184 36129 33983 83321 81235 32469 930 6 00000 | USB | (AB) |
| **S06s** | 6845 | 7-2 | 1500 | Tue | 537 281 6 88443 36772 98493 36340 32048 34338 281 6 00000 | USB | (AB/MPJ) |
| **S06s** | 9170 | 7-2 | 1510 | Tue | 537 281 6 88443 36772 98493 36340 32048 34338 281 6 00000 | USB | (AB/MPJ) |
| **S06s** | 8417 | 8-2 | 0820 | Wed | 471 935 6 43334 30147 30494 43014 81015 46544 935 6 00000 | USB | (AB/ES) |
| **S06s** | 7062 | 8-2 | 0830 | Wed | 464 951 7 82333 36958 39423 48076 33739 43384 33898 951 7 00000 | USB | (AB) |
| **S06s** | 9262 | 8-2 | 0830 | Wed | 471 935 6 43334 30147 30494 43014 81015 46544 935 6 00000 | USB | (AB) |
| **S06s** | 11535 | 8-2 | 0830 | Wed | 745 908 6 34645 31830 33885 42384 35438 80044 908 6 00000 | USB | (AB/ES) |
| **S06s** | 10532 | 8-2 | 0840 | Wed | 464 951 7 82333 36958 39423 48076 33739 43384 33898 951 7 00000 | USB | (AB/ES) |
| **S06s** | 11830 | 8-2 | 0840 | Wed | 745 908 6 34645 31830 33885 42384 35438 80044 908 6 00000 | USB | (AB/SG) |
| **S06s** | 12365 | 8-2 | 1000 | Wed | 729 830 5 13193 32521 36333 91530 64794 830 5 00000 | USB | (AB/SG) |
| **S06s** | 14280 | 8-2 | 1010 | Wed | 729 830 5 13193 32521 36333 91530 64794 830 5 00000 | USB | (AB/ES/SG) |
| **S06s** | 8812 | 9-2 | 0930 | Thu | 314 259 6 40244 36012 38323 47552 43630 40846 259 6 00000 | USB | (AB/ES) |
| **S06s** | 9540 | 9-2 | 0940 | Thu | 314 259 6 40244 36012 38323 47552 43630 40846 259 6 00000 | USB | (AB) |
| **S06s** | 12155 | 9-2 | 1200 | Thu | 425 918 6 92325 36615 36491 49588 41061 83354 918 6 00000 | USB | (AB/MPJ/ES) |
| **S06s** | 10920 | 9-2 | 1210 | Thu | 425 918 6 92325 36615 36491 49588 41061 83354 918 6 00000 | USB | (AB/MPJ) |
| **S06s** | 5765 | 10-2 | 0900 | Fri | 624 509 7 31492 34793 31365 46933 35868 47892 37858 509 7 00000 | USB | (AB) |
| **S06s** | 6315 | 10-2 | 0910 | Fri | 624 509 7 31492 34793 31365 46933 35868 47892 37858 509 7 00000 | USB | (AB) |
| **S06s** | 11780 | 10-2 | 0930 | Fri | 516 420 7 31829 47694 45680 45089 32417 39736 35697 420 7 00000 | USB | (AB/SG) |
| **S06s** | 12570 | 10-2 | 0940 | Fri | 516 420 7 31829 47694 45680 45089 32417 39736 35697 420 7 00000 | USB | (AB) |
| **S06s** | 13470 | 12-2 | 0630 | Sun | 524 961 7 39382 45739 49645 32975 45356 49396 39265 961 7 00000 | USB | (AB/SP1/BvR) |
| **S06s** | 16515 | 12-2 | 0640 | Sun | 524 961 7 39382 45739 49645 32975 45356 49396 39265 961 7 00000 | USB | (AB) |
| **S06s** | 8057 | 13-2 | 0830 | Mon | 371 405 6 47694 45680 45089 32417 39736 35697 405 6 00000 | USB | (AB) |
| **S06s** | 8530 | 13-2 | 0840 | Mon | 371 405 6 47694 45680 45089 32417 39736 35697 405 6 00000 | USB | (AB) |
| **S06s** | 14675 | 13-2 | 0900 | Mon | 872 954 6 32391 38632 35044 41354 31663 41731 954 6 00000 | USB | (AB) |
| **S06s** | 12830 | 13-2 | 0910 | Mon | 872 954 6 32391 38632 35044 41354 31663 41731 954 6 00000 | USB | (AB) |
| **S06s** | 8420 | 13-2 | 1300 | Mon | 831 270 5 32382 38053 33231 42923 42032 270 5 00000 | USB | (AB) |
| **S06s** | 10635 | 13-2 | 1310 | Mon | 831 270 5 32382 38053 33231 42923 42032 270 5 00000 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| **S06s** | 16145 | 14-2 | 0600 | Tue | 438 206 5 39742 23416 45268 47504 31287 206 5 00000 | USB | (AB-POL/ES) |
| **S06s** | 14240 | 14-2 | 0610 | Tue | 438 206 5 39742 23416 45268 47504 31287 206 5 00000 | USB | (AB/ES) |
| **S06s** | 5250 | 14-2 | 0700 | Tue | 374 819 5 37947 39747 31323 31829 47967 819 5 00000 | USB | (AB) |
| **S06s** | 6320 | 14-2 | 0715 | Tue | 374 819 5 37947 39747 31323 31829 47967 819 5 00000 | USB | (AB) |
| **S06s** | 7410 | 14-2 | 0730 | Tue | 427 896 5 33699 39998 30667 35947 83964 896 5 00000 | USB | (AB/SG) |
| **S06s** | 11532 | 14-2 | 0740 | Tue | 427 896 5 33699 39998 30667 35947 83964 896 5 00000 | USB | (AB) |
| **S06s** | 11945 | 14-2 | 0800 | Tue | 352 496 7 44475 30322 36034 35445 44008 38453 48324 496 7 00000 | USB | (AB) |
| **S06s** | 13195 | 14-2 | 0810 | Tue | 352 496 7 44475 30322 36034 35445 44008 38453 48324 496 7 00000 | USB | (AB) |
| **S06s** | 6440 | 14-2 | 1000 | Tue | 893 401 5 43637 41341 47217 30487 34053 401 5 00000 | USB | (AB-UKR) |
| **S06s** | 5660 | 14-2 | 1010 | Tue | 893 401 5 43637 41341 47217 30487 34053 401 5 00000 | USB | (AB) |
| **S06s** | 5035 | 14-2 | 1100 | Tue | 754 930 6 37184 36129 33983 83321 81235 32469 930 6 00000 | USB | (AB/ES) |
| **S06s** | 5975 | 14-2 | 1110 | Tue | 754 930 6 37184 36129 33983 83321 81235 32469 930 6 00000 | USB | (AB/ES) |
| **S06s** | 6845 | 14-2 | 1500 | Tue | 537 281 6 88443 36772 98493 36340 32048 34338 281 6 00000 | USB | (AB) |
| **S06s** | 9170 | 14-2 | 1510 | Tue | 537 281 6 88443 36772 98493 36340 32048 34338 281 6 00000 | USB | (AB) |
| **S06s** | 8417 | 15-2 | 0820 | Wed | 471 825 6 37796 85258 38303 48833 37437 55584 825 6 00000 | USB | (AB) |
| **S06s** | 7062 | 15-2 | 0830 | Wed | 464 920 5 34917 36991 38643 37967 89762 920 5 00000 | USB | (AB) |
| **S06s** | 9262 | 15-2 | 0830 | Wed | 471 825 6 37796 85258 38303 48833 37437 55584 825 6 00000 | USB | (AB) |
| **S06s** | 11535 | 15-2 | 0830 | Wed | 745 802 6 44008 38753 08324 33885 31830 32860 802 6 00000 | AM | (AB/ES) |
| **S06s** | 10532 | 15-2 | 0840 | Wed | 464 920 5 34917 36991 38643 37967 89762 920 5 00000 | USB | (AB/ES) |
| **S06s** | 11830 | 15-2 | 0840 | Wed | 745 802 6 44008 38753 08324 33885 31830 32860 802 6 00000 | AM | (AB) |
| **S06s** | 12365 | 15-2 | 1000 | Wed | 729 481 5 36772 98493 36340 32048 34338 481 5 00000 | USB | (AB) |
| **S06s** | 14280 | 15-2 | 1010 | Wed | 729 481 5 36772 98493 36340 32048 34338 481 5 00000 | USB | (AB/ES) |
| **S06s** | 8812 | 16-2 | 0930 | Thu | 314 578 6 35861 33432 89319 32494 37142 32842 578 6 00000 | USB | (AB/ES) |
| **S06s** | 9540 | 16-2 | 0940 | Thu | 314 578 6 35861 33432 89319 32494 37142 32842 578 6 00000 | USB | (AB) |
| **S06s** | 12155 | 16-2 | 1200 | Thu | 425 837 6 40048 43617 30343 84217 43043 39553 837 6 00000 | USB | (AB/GHn/ES) |
| **S06s** | 10920 | 16-2 | 1210 | Thu | 425 837 6 40048 43617 30343 84217 43043 39553 837 6 00000 | USB | (AB) |
| **S06s** | 5765 | 17-2 | 0900 | Fri | 624 983 5 48555 73473 33884 39303 85258 983 5 00000 | USB | (AB) |
| **S06s** | 6315 | 17-2 | 0910 | Fri | 624 983 5 48555 73473 33884 39303 85258 983 5 00000 | USB | (AB) |
| **S06s** | 11780 | 17-2 | 0930 | Fri | 516 429 7 37569 35656 44868 36582 39730 49674 31829 429 7 00000 | USB | (AB/ES) |

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|---|---|---|---|---|---|---|---|
| **S06s** | 12570 | 17-2 | 0940 | Fri | 516 429 7 37569 35656 44868 36582 39730 49674 31829 429 7 00000 | USB | (AB) |
| **S06s** | 13470 | 19-2 | 0630 | Sun | 524 980 6 43090 84663 83473 33599 30743 37625 980 6 00000 | USB | (AB) |
| **S06s** | 16515 | 19-2 | 0640 | Sun | 524 980 6 43090 84663 83473 33599 30743 37625 980 6 00000 | USB | (AB) |
| **S06s** | 8057 | 20-2 | 0830 | Mon | 371 264 5 46062 68672 97478 39685 30485 264 5 00000 | USB | (AB) |
| **S06s** | 8530 | 20-2 | 0840 | Mon | 371 264 5 46062 68672 97478 39685 30485 264 5 00000 | USB | (AB) |
| **S06s** | 14675 | 20-2 | 0900 | Mon | 872 951 6 88620 58069 61732 74537 57440 10597 951 6 00000 | USB | (AB-UKR) |
| **S06s** | 12830 | 20-2 | 0910 | Mon | 872 951 6 88620 58069 61732 74537 57440 10597 951 6 00000 | USB | (AB) |
| **S06s** | 8420 | 20-2 | 1300 | Mon | 831 570 6 33796 13577 74526 46647 79302 53516 570 6 00000 | USB | (AB) |
| **S06s** | 10635 | 20-2 | 1310 | Mon | 831 570 6 33796 13577 74526 46647 79302 53516 570 6 00000 | USB | (AB/MPJ |
| **S06s** | 16145 | 21-2 | 0600 | Tue | 438 970 5 01405 15003 24357 60684 54545 stops, no end | USB | (AB-POL) |
| **S06s** | 14240 | 21-2 | 0610 | Tue | 438 970 5 01405 15003 24357 60684 54545 stops, no end. During the callup interrupted by a pirate station calling 438 | USB | (AB-POL) |
| **S06s** | 5250 | 21-2 | 0700 | Tue | 374 952 6 88146 57856 98835 46186 16945 80744 952 6 00000 | USB | (AB) |
| **S06s** | 6320 | 21-2 | 0715 | Tue | 374 952 6 88146 57856 98835 46186 16945 80744 952 6 00000 | USB | (AB) |
| **S06s** | 7410 | 21-2 | 0730 | Tue | 427 839 5 82333 36958 29423 48076 33739 839 5 00000 | USB | (AB) |
| **S06s** | 11532 | 21-2 | 0740 | Tue | 427 839 5 82333 36958 29423 48076 33739 839 5 00000 | USB | (AB) |
| **S06s** | 11945 | 21-2 | 0800 | Tue | 352 897 6 36998 39801 37331 38881 37914 43071 897 6 00000 | USB | (AB) |
| **S06s** | 13195 | 21-2 | 0810 | Tue | 352 897 6 36998 39801 37331 38881 37914 43071 897 6 00000 | USB | (AB) |
| **S06s** | 6440 | 21-2 | 1000 | Tue | 893 426 5 87240 34625 38363 22126 26122 426 5 00000 | USB | (AB-UKR/ES) |
| **S06s** | 5660 | 21-2 | 1010 | Tue | 893 426 5 87240 34625 38363 22126 26122 426 5 00000 | USB | (AB) |
| **S06s** | 5035 | 21-2 | 1100 | Tue | 754 893 6 38034 39477 22267 27555 22300 91480 893 6 00000 | USB | (AB) |
| **S06s** | 5975 | 21-2 | 1110 | Tue | 754 893 6 38034 39477 22267 27555 22300 91480 893 6 00000 | USB | (AB/ES) |
| **S06s** | 6845 | 21-2 | 1500 | Tue | 537 849 6 34032 33420 37536 34906 39698 35454 849 6 00000 | USB | (AB) |
| **S06s** | 9170 | 21-2 | 1510 | Tue | 537 849 6 34032 33420 37536 34906 39698 35454 849 6 00000 | USB | (AB) |
| **S06s** | 8417 | 22-2 | 0820 | Wed | 471 825 6 37796 85258 38303 48833 37437 55584 825 6 00000 | USB | (AB/ES) |
| **S06s** | 7062 | 22-2 | 0830 | Wed | 464 920 5 34917 36991 38643 37967 89762 920 5 00000 | USB | (AB) |
| **S06s** | 9262 | 22-2 | 0830 | Wed | 471 825 6 37796 85258 38303 48833 37437 55584 825 6 00000 | USB | (AB) |
| **S06s** | 11535 | 22-2 | 0830 | Wed | 745 802 6 44008 38753 08324 33885 31830 32860 802 6 00000 | USB | (AB) |
| **S06s** | 10532 | 22-2 | 0840 | Wed | 464 920 5 34917 36991 38643 37967 89762 920 5 00000 | USB | (AB) |
| **S06s** | 11830 | 22-2 | 0840 | Wed | 745 802 6 44008 38753 08324 33885 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| | | | | | 31830 32860 802 6 00000 | | |
| **S06s** | 12365 | 22-2 | 1000 | Wed | 729 481 5 36772 98493 36340 32048 34338 481 5 00000 | USB | (AB/ES) |
| **S06s** | 14280 | 22-2 | 1010 | Wed | 729 481 5 36772 98493 36340 32048 34338 481 5 00000 | USB | (AB) |
| **S06s** | 8812 | 23-2 | 0930 | Thu | 314 578 6 35861 33432 89319 32494 37142 32842 578 6 00000 | USB | (AB) |
| **S06s** | 9540 | 23-2 | 0940 | Thu | 314 578 6 35861 33432 89319 32494 37142 32842 578 6 00000 | USB | (AB) |
| **S06s** | 12155 | 23-2 | 1200 | Thu | 425 837 6 40048 43617 30343 84217 43043 39553 837 6 00000 | USB | (AB/MPJ) |
| **S06s** | 10920 | 23-2 | 1210 | Thu | 425 837 6 40048 43617 30343 84217 43043 39553 837 6 00000 | USB | (AB/MPJ) |
| **S06s** | 5765 | 24-2 | 0900 | Fri | 624 983 5 48555 73473 33884 39303 85258 983 5 00000 | USB | (AB) |
| **S06s** | 6315 | 24-2 | 0910 | Fri | 624 983 5 48555 73473 33884 39303 85258 983 5 00000 | USB | (AB) |
| **S06s** | 11780 | 24-2 | 0930 | Fri | 516 429 7 37569 35656 44868 36582 39730 49674 31829 429 7 00000 | USB | (AB) |
| **S06s** | 12570 | 24-2 | 0940 | Fri | 516 429 7 37569 35656 44868 36582 39730 49674 31829 429 7 00000 | USB | (AB) |
| **S06s** | 13470 | 26-2 | 0630 | Sun | 524 980 6 43090 84663 83473 33599 30743 37625 980 6 00000 | USB | (AB-GRC) |
| **S06s** | 16515 | 26-2 | 0640 | Sun | 524 980 6 43090 84663 83473 33599 30743 37625 980 6 00000 | USB | (AB-GRC) |
| **S06s** | 8057 | 27-2 | 0830 | Mon | 371 264 5 46062 68672 97478 39685 30485 264 5 00000 | USB | (AB) |
| **S06s** | 8530 | 27-2 | 0840 | Mon | 371 264 5 46062 68672 97478 39685 30485 264 5 00000 | USB | (AB) |
| **S06s** | 14675 | 27-2 | 0900 | Mon | 872 951 6 88620 58069 61732 74537 57440 10597 951 6 00000 | USB | (AB) |
| **S06s** | 12830 | 27-2 | 0910 | Mon | 872 951 6 88620 58069 61732 74537 57440 10597 951 6 00000 | USB | (AB) |
| **S06s** | 8420 | 27-2 | 1300 | Mon | 831 570 6 33796 13577 74526 46647 79302 53516 570 6 00000 | USB | (AB) |
| **S06s** | 10635 | 27-2 | 1310 | Mon | 831 570 6 33796 13577 74526 46647 79302 53516 570 6 00000 | USB | (AB/ES) |
| **S06s** | 5250 | 28-2 | 0700 | Tue | 374 952 6 88146 57856 98835 46186 16945 80744 952 6 00000 | USB | (AB) |
| **S06s** | 6320 | 28-2 | 0715 | Tue | 374 952 6 88146 57856 98835 46186 16945 80744 952 6 00000 | USB | (AB/ES) |
| **S06s** | 7410 | 28-2 | 0730 | Tue | 427 839 5 82333 36958 29423 48076 33739 839 5 00000 | USB | (AB/ES) |
| **S06s** | 11532 | 28-2 | 0740 | Tue | 427 839 5 82333 36958 29423 48076 33739 839 5 00000 | USB | (AB) |
| **S06s** | 11945 | 28-2 | 0800 | Tue | 352 897 6 36998 39801 37331 38881 37914 43071 897 6 00000 | USB | (AB) |
| **S06s** | 13195 | 28-2 | 0810 | Tue | 352 897 6 36998 39801 37331 38881 37914 43071 897 6 00000 | USB | (AB/ES) |
| **S06s** | 13195 | 28-2 | 0825 | Tue | 352 897 6 36998 39801 37331 38881 37914 43071 897 6 00000 unexpected repeat of 0810 UTC | USB | (ES) |
| **S06s** | 6440 | 28-2 | 1000 | Tue | 893 426 5 87240 34625 38363 22126 26122 426 5 00000 | USB | (AB) |
| **S06s** | 5660 | 28-2 | 1010 | Tue | 893 426 5 87240 34625 38363 22126 26122 426 5 00000 | USB | (AB/ES) |
| **S06s** | 5035 | 28-2 | 1100 | Tue | 754 893 6 38034 39477 22267 27555 22300 91480 893 6 00000 | USB | (AB) |

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|---|---|---|---|---|---|---|---|
| **S06s** | 5975 | 28-2 | 1110 | Tue | 754 893 6 38034 39477 22267 27555 22300 91480 893 6 00000 | USB | (AB/ES) |
| **S06s** | 6845 | 28-2 | 1500 | Tue | 537 849 6 34032 33420 37536 34906 39698 35454 849 6 00000 | USB | (AB) |
| **S06s** | 9170 | 28-2 | 1510 | Tue | 537 849 6 34032 33420 37536 34906 39698 35454 849 6 00000 | USB | (AB) |
| **S11a** | 10728 | 1-2 | 1540 | Wed | 561/00 | USB | (AB/MPJ) |
| **S11a** | 12530 | 2-2 | 1015 | Thu | 479/00 | USB | (AB-POL/ES) |
| **S11a** | 7504 | 3-2 | 0915 | Fri | 485/00 | USB | (AB/ES) |
| **S11a** | 5815 | 3-2 | 1955 | Fri | 370/36 Vnimaniye ... | USB | (AB) |
| **S11a** | 10728 | 4-2 | 1540 | Sat | 569/00 | USB | (AB) |
| **S11a** | 12530 | 6-2 | 1015 | Mon | 472/00 | USB | (AB) |
| **S11a** | 4828 | 7-2 | 0455 | Tue | 326/00 | USB | (AB/ES) |
| **S11a** | 7504 | 7-2 | 0915 | Tue | 482/36 Vnimaniye 88235 71251 86611 ... 93342 35021 76020 Vnimaniye, rpt msg, konets | USB | (AB/ES) |
| **S11a** | 9610 | 7-2 | 1020 | Tue | 421/00 | USB | (AB) |
| **S11a** | 12530 | 9-2 | 1015 | Thu | 475/00 | USB | (AB/ES) |
| **S11a** | 4828 | 10-2 | 0455 | Fri | 329/00 | USB | (AB/ES) |
| **S11a** | 7504 | 10-2 | 0915 | Fri | 482/36 Vnimaniye 88235 71251 86611 ... 93342 35021 76020 Vnimaniye, rpt msg, konets | USB | (AB) |
| **S11a** | 9610 | 10-2 | 1020 | Fri | 421/00 | USB | (AB/RL-HOL) |
| **S11a** | 5815 | 10-2 | 1955 | Fri | 372/00 | USB | (AB/MPJ) |
| **S11a** | 10728 | 11-2 | 1540 | Sat | 569/00 | USB | (AB/MPJ) |
| **S11a** | 12530 | 13-2 | 1015 | Mon | 476/40 Vnimaniye 96641 87539 01373 ... 89672 52558 12046 Vnimaniye, rpt msg, konets | USB | (AB) |
| **S11a** | 4828 | 14-2 | 0455 | Tue | 322/00 | USB | (AB/ES) |
| **S11a** | 7504 | 14-2 | 0915 | Tue | 483/00 | USB | (AB/ES) |
| **S11a** | 9610 | 14-2 | 1020 | Tue | 426/00 | USB | (AB/ES) |
| **S11a** | 19099 | 15-2 | 0715 | Wed | 380/00 | USB | (AB-POL/ES) |
| **S11a** | 10728 | 15-2 | 1540 | Wed | 563/31 Vnimaniye 67733 03037 ... | USB | (MPJ) |
| **S11a** | 5815 | 15-2 | 1955 | Wed | 371/00 | USB | (AB/MPJ) |
| **S11a** | 12530 | 16-2 | 1015 | Thu | 476/40 Vnimaniye 96641 87539 01373 ... 89672 52548 12046 Vnimaniye, rpt msg, konets | USB | (ES-I) |
| **S11a** | 4828 | 17-2 | 0455 | Fri | 321/00 | USB | (AB/ES) |
| **S11a** | 7504 | 17-2 | 0915 | Fri | 480/00 | USB | (AB) |
| **S11a** | 9610 | 17-2 | 1020 | Fri | 424/00 | USB | (AB) |
| **S11a** | 5815 | 17-2 | 1955 | Fri | 370/00 | USB | (AB/MPJ) |
| **S11a** | 10728 | 18-2 | 1540 | Sat | 563/31 Vnimaniye 67733 02039 94299 ... 65717 40882 00323 Vnimaniye, rpt msg, konets | USB | (AB/ES) |
| **S11a** | 19099 | 20-2 | 0715 | Mon | 380/00 | USB | (AB-POL) |
| **S11a** | 12530 | 20-2 | 1015 | Mon | 476/00 | USB | (AB/ES) |
| **S11a** | 4828 | 21-2 | 0455 | Tue | 327/32 Vnimaniye 26735 95514 ... | USB | (AB/ES) |
| **S11a** | 7504 | 21-2 | 0915 | Tue | 487/00 | USB | (AB) |
| **S11a** | 9610 | 21-2 | 1020 | Tue | 422/30 Vnimaniye 56837 24797 99432 ... 21459 95806 25485 Vnimaniye, rpt msg, konets | USB | (AB/ES) |
| **S11a** | 19099 | 22-2 | 0715 | Wed | 385/00 | USB | (AB-POL/ES/HFD) |
| **S11a** | 10728 | 22-2 | 1540 | Wed | 565/00 | USB | (AB/GHn) |
| **S11a** | 5815 | 22-2 | 1955 | Wed | 376/00 | USB | (AB) |
| **S11a** | 12530 | 23-2 | 1015 | Thu | 479/00 | USB | (AB) |
| **S11a** | 4828 | 24-2 | 0455 | Fri | 327/32 Vnimaniye 26735 95514 02142 ... 88803 13812 81993 Vnimaniye, rpt msg, | USB | (AB/ES-UKR) |

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|---|---|---|---|---|---|---|---|
| | | | | | konets | | |
| **S11a** | 7504 | 24-2 | 0915 | Fri | 483/00 | USB | (AB) |
| **S11a** | 9610 | 24-2 | 1020 | Fri | 422/30 Vnimaniye 56837 24797 99432 ... 21459 95806 25485 Vnimaniye, rpt msg, konets | USB | (AB/ES) |
| **S11a** | 10728 | 25-2 | 1540 | Sat | 565/00 | USB | (MPJ) |
| **S11a** | 19099 | 27-2 | 0715 | Mon | 383/00 | USB | (AB-POL) |
| **S11a** | 12530 | 27-2 | 1015 | Mon | 475/00 | USB | (AB/MPJ) |
| **S11a** | 4828 | 28-2 | 0455 | Tue | 327/00 | USB | (ES) |
| **S11a** | 7504 | 28-2 | 0915 | Tue | 482/00. Null message; should carry the same message as F11 at 0900/0905z | USB | (AB/ES) |
| **S11a** | 9610 | 28-2 | 1020 | Tue | 426/00 | USB | (AB/ES) |
| **S28** | 4625 | 2-2 | 0938 | Thu | ZhUOZ 05680 VYRUB 04672229 LYeDOBICh 81792996 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 0941 | Thu | ZhUOZ 88925 GLIFOHRYaK 44618565 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 0954 | Thu | ZhUOZ 59962 KAMA 89058097 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 1001 | Thu | ZhUOZ 56067 VIZGOTRUD 58803520 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 1034 | Thu | ZhUOZ 26950 DIODOSYeRB 49719078 IL'MOPOT 18703593. Female voice on background "Operative duty officer..." | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 1107 | Thu | ZhUOZ 21206 ZhMYHOVUZ 89557632 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 1119 | Thu | ZhUOZ 70065 GONGOLYaRD 23451599 | USB | (Priyom) |
| **S28** | 4625 | 2-2 | 1121 | Thu | ZhUOZ 24246 ANAPLAZMOZ 39431900 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 0754 | Mon | ZhUOZ 98034 VYMYeTAN'Ye 57555524 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 0757 | Mon | ZhUOZ 20520 ISSTUPLYeNIYe 44612701 KYePLYeR 36026413 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 0831 | Mon | ZhUOZ 76190 BOLOPYeK 51545596 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1154 | Mon | ZhUOZ 48160 KYeBOShLAG 33869636 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1203 | Mon | ZhUOZ 62484 ZhAVORONOK 93254230 LAFA 94377557 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1223 | Mon | ZhUOZ 09844 BASOFAKT 32236125 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1257 | Mon | ZhUOZ 95192 ZhGUTOPLYaS 28047084 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1345 | Mon | ZhUOZ 46929 DYeRZhAVA 85521018 | USB | (Priyom) |
| **S28** | 4625 | 6-2 | 1431 | Mon | ZhUOZ 31399 AMPYeRMYeTR 27425358 | USB | (Priyom) |
| **S28** | 4625 | 7-2 | 1543 | Tue | ZhUOZ 70010 BAROSPOJ 80152030 | USB | (Priyom) |
| **S28** | 4625 | 7-2 | 1656 | Tue | ZhUOZ 04051 LZhYeCOCYeNT 01580172 | USB | (Priyom) |
| **S28** | 4625 | 8-2 | 1351 | Wed | ZhUOZ 29381 ZhITYeL' 25898310 | USB | (Priyom) |
| **S28** | 4625 | 11-2 | 1803 | Sat | Buzzer channel marker | USB | (AB) |
| **S28** | 4625 | 12-2 | 1235 | Sun | ZhUOZ 88406 GORNOKAYuK 38767856 | USB | (Priyom) |
| **S28** | 4625 | 12-2 | 1249 | Sun | ZhUOZ 84518 GRIMOChYeRT 60899529 IDYeALIZACIYa 16346291 | USB | (Priyom) |
| **S28** | 4625 | 12-2 | 1343 | Sun | ZhUOZ 25811 BRYeDORYeJN 25072604 | USB | (Priyom) |
| **S28** | 4625 | 15-2 | 1618 | Wed | ZhUOZ 33275 GIPSOSTYK 04980989. Female voice on background | USB | (Priyom) |
| **S28** | 4625 | 15-2 | 1719 | Wed | ZhUOZ 28000 AFONOKOM 98595763 | USB | (Priyom) |
| **S28** | 4625 | 16-2 | 1355 | Thu | ZhUOZ 11598 INAKOMYSLIYe 00000000 Almost inaudible due to failed upink from operator | USB | (Priyom) |
| **S28** | 4625 | 16-2 | 1727 | Thu | ZhUOZ 56364 BOSSOBUK 22080101 VIZGOFTOR 10790397 BURYeVYeSTNIK 28969772 | USB | (Priyom) |
| **S28** | 4625 | 17-2 | 0547 | Fri | Buzzer channel marker | USB | (ChPa) |
| **S28** | 4625 | 17-2 | 1644 | Fri | Buzzer channel marker //6330 kHz (mirror) | USB | (AB) |
| **S28** | 6330 | 17-2 | 1644 | Fri | Buzzer channel marker mirror //4625 kHz | USB | (AB) |
| **S28** | 4625 | 17-2 | 1716 | Fri | Buzzer channel marker | USB | (ChPa) |
| **S28** | 4625 | 20-2 | 1002 | Mon | ZhUOZ 33838 BITOKON 94001376 | USB | (Priyom) |
| **S28** | 4625 | 20-2 | 1004 | Mon | ZhUOZ 88578 YeZhOShLIH 71179875 | USB | (Priyom) |

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|---|---|---|---|---|---|---|---|
| **S30** | 3756 | 2-2 | 1615 | Thu | SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY | USB | (Priyom) |
| **S30** | 3756 | 6-2 | 0449 | Mon | 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 | USB | (Priyom) |
| **S30** | 3756 | 6-2 | 1342 | Mon | 8S1Shch 31197 GROBOPLYaS 04584253. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 6-2 | 1428 | Mon | 8S1Shch 21625 GROShOPOL 99859349. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 6-2 | 1627 | Mon | LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB | USB | (Priyom) |
| **S30** | 3756 | 7-2 | 0402 | Tue | 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B | USB | (Priyom) |
| **S30** | 3756 | 7-2 | 1457 | Tue | CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA | USB | (Priyom) |
| **S30** | 3756 | 7-2 | 1544 | Tue | 8S1Shch 57707 INDOL 85736911. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 7-2 | 1553 | Tue | 8S1Shch 03052 LUBOBAS 13299675. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 8-2 | 0524 | Wed | VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' | USB | (Priyom) |
| **S30** | 3756 | 8-2 | 1454 | Wed | DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 | USB | (Priyom) |
| **S30** | 3756 | 8-2 | 1712 | Wed | HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P | USB | (Priyom) |
| **S30** | 3756 | 10-2 | 0459 | Fri | F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG | USB | (Priyom) |
| **S30** | 3756 | 10-2 | 1708 | Fri | M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 | USB | (Priyom) |
| **S30** | 3756 | 11-2 | 0507 | Sat | V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' | USB | (Priyom) |
| **S30** | 3756 | 11-2 | 1805 | Sat | Pip channel marker | USB | (AB) |
| **S30** | 3756 | 11-2 | 1828 | Sat | 7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 | USB | (Priyom) |
| **S30** | 5448 | 12-2 | 0529 | Sun | 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch | USB | (Priyom) |
| **S30** | 3756 | 12-2 | 1715 | Sun | 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' | USB | (Priyom) |
| **S30** | 3756 | 15-2 | 0458 | Wed | 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF | USB | (Priyom) |
| **S30** | 3756 | 15-2 | 1618 | Wed | 8S1Shch 92559 KYeDROZAYaC 00706129. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 15-2 | 1719 | Wed | 8S1Shch 11408 LAZOSKOP 80450273. Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 15-2 | 1920 | Wed | 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O | USB | (Priyom) |
| **S30** | 3756 | 16-2 | 1446 | Thu | 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN | USB | (Priyom) |
| **S30** | 3756 | 16-2 | 1716 | Thu | MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch | USB | (Priyom) |
| **S30** | 3756 | 16-2 | 1728 | Thu | 8S1Shch NYeOSTRYJ 6558 Test count be-fore the message | USB | (Priyom) |
| **S30** | 3756 | 17-2 | 0538 | Fri | 8S1Shch VYZhIMOChNYJ 9579 Time mark after the message | USB | (Priyom) |
| **S30** | 3756 | 17-2 | 1650 | Fri | Pip channel marker | USB | (AB) |
| **S30** | 3756 | 17-2 | 1713 | Fri | LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB | USB | (Priyom) |
| **S30** | 3756 | 17-2 | 1725 | Fri | Pip channel marker | USB | (ChPa) |
| **S30** | 3756 | 18-2 | 1504 | Sat | 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS | USB | (Priyom) |

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| | | | | | Z7PM S7ZhG Z'1B | | |
| **S30** | 3756 | 18-2 | 1743 | Sat | INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 | USB | (Priyom) |
| **S32** | 3828 | 2-2 | 1714 | Thu | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeNZA-07 DUBLYoR-68 STAZhER-29 | USB | (Priyom) |
| **S32** | 5473 | 6-2 | 1347 | Mon | AL'FA-45 18207 MYeNTOTRON 50484644 | USB | (Priyom) |
| **S32** | 5473 | 7-2 | 0627 | Tue | STOROZh-62 YaHTA-94 RUZh'E-26 KOVBOJ-39. S30 in the background | USB | (Priyom) |
| **S32** | 5473 | 7-2 | 0700 | Tue | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeNZA-07 | USB | (Priyom) |
| **S32** | 5473 | 7-2 | 1356 | Tue | AL'FA-45 84696 37132 32150 57617 BRY-aKOVTUZ 63188366. S30 in the back-ground. Time mark after the message | USB | (Priyom) |
| **S32** | 3828 | 7-2 | 1548 | Tue | AL'FA-45 37116 BYeLOLICYJ 60746179 | USB | (Priyom) |
| **S32** | 3828 | 7-2 | 1557 | Tue | AL'FA-45 86694 GAZOSVARShchIK 90383532 | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 0408 | Wed | AL'FA-45 KAFYeL'NYJ 1439 DOTIROVAN'Ye 9398 | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1526 | Wed | ShchCYe9 19BT Shch8AF M7KS 47235 56637 74194 98007 BASKOHVAT 32971730. Error in the repeat | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1610 | Wed | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYe-ZINA-38 BURKA-37 | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1711 | Wed | ShchCYe9 19BT Shch8AF M7KS 17273 97849 68768 41375 GORNOVOYaZh 15370264. S30 in the background | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1725 | Wed | ShchCYe9 19BT Shch8AF M7KS 36264 78381 78870 40066 VYeSTOVOYaZh 31718748. S30 in the background | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1750 | Wed | ShchCYe9 19BT Shch8AF M7KS 20845 55311 32128 48925 MYeHOBRYaK 04839357. S30 in the background | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1815 | Wed | ShchCYe9 19BT Shch8AF M7KS 53194 39388 85079 48572 ZVONOKUM 29509422. S30 in the background | USB | (Priyom) |
| **S32** | 3828 | 8-2 | 1856 | Wed | ShchCYe9 19BT Shch8AF M7KS 74262 94769 83942 20861 MYeShchANKA 97891913. S30 in the background. Sboj (err | USB | (Priyom) |
| **S32** | 3828 | 10-2 | 1816 | Fri | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYe-ZINA-38 BURKA-37 | USB | (Priyom) |
| **S32** | 3828 | 11-2 | 1804 | Sat | Squeaky Wheel channel marker | USB | (AB) |
| **S32** | 3828 | 12-2 | 1742 | Sun | ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYe-ZINA-38 BURKA-37 | USB | (Priyom) |
| **S32** | 3828 | 14-2 | 0345 | Tue | KZV' DSAS PMV5 62010 08771 46419 KANT 98802122 | USB | (Priyom) |
| **S32** | 3828 | 14-2 | 0351 | Tue | KZV' DSAS PMV5 43754 62429 85437 AMI-LOIDOZ 60803387 | USB | (Priyom) |
| **S32** | 3828 | 14-2 | 0356 | Tue | KZV' DSAS 51221 23117 MONONUKLEOZ 78283112 | USB | (Priyom) |
| **S32** | 3828 | 15-2 | 0256 | Wed | KZV' DSAS PMV5 71205 45065 48059 IS-KOKLIR 49927110 | USB | (Priyom) |
| **S32** | 3828 | 16-2 | 1657 | Thu | AL'FA-45 19051 75788 74254 LUKOKLUB 75899661 | USB | (Priyom) |
| **S32** | 3828 | 16-2 | 1730 | Thu | AL'FA-45 NYeOSTRYJ 6558 (relayed from S30) | USB | (Priyom) |
| **S32** | 3828 | 16-2 | 1737 | Thu | AL'FA-45 NYeOSTRYJ 6558 (relayed from | USB | (Priyom) |

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| | | | | | S30) | | |
| **S32** | 3828 | 16-2 | 1758 | Thu | ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYe-ZINA-38 BURKA-37 | USB | (Priyom) |
| **S32** | 3828 | 17-2 | 0440 | Fri | AL'FA-45 VYZhIMOChNYJ 9579 Relayed from S30 | USB | (Priyom) |
| **S32** | 3828 | 17-2 | 1651 | Fri | Squeaky Wheel channel marker | USB | (AB) |
| **S32** | 3828 | 17-2 | 1704 | Fri | PYeSOChNYJ-21 ShULER-60 STUPA-32 RYe-ZINA-38 BURKA-37 | USB | (Priyom) |
| **S32** | 3828 | 17-2 | 1727 | Fri | Squeaky Wheel channel marker | USB | (ChPa) |
| **S32** | 3828 | 18-2 | 1724 | Sat | SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 | USB | (Priyom) |
| **S4020** | 4020 | 2-2 | 1600 | Thu | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 2-2 | 2054 | Thu | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 3-2 | 1711 | Fri | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 4-2 | 0536 | Sat | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 5-2 | 0546 | Sun | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 7-2 | 0816 | Tue | Provoditsya tekhnicheskaya proverka (Conducting technical test) | USB | (Priyom) |
| **S4020** | 4020 | 7-2 | 1004 | Tue | Test counts | USB | (Priyom) |
| **S4020** | 4020 | 8-2 | 1301 | Wed | Buzzer-like channel marker | USB | (AB) |
| **S4020** | 4020 | 8-2 | 1332 | Wed | Test count: 1 2 3 4 5 6 7 8 9 10 priyom | USB | (Priyom) |
| **S4020** | 4020 | 11-2 | 1801 | Sat | Buzzer-like channel marker | USB | (AB) |
| **S4020** | 4020 | 15-2 | 1347 | Wed | Air-horn marker | USB | (AB) |
| **S4020** | 4020 | 16-2 | 1945 | Thu | Air-horn channel marker | USB | (ChPa) |
| **S4020** | 4020 | 17-2 | 1647 | Fri | Air-horn channel marker | USB | (AB) |
| **S4020** | 4020 | 17-2 | 1707 | Fri | Air-horn channel marker | USB | (ChPa) |
| **S4020** | 4020 | 18-2 | 1956 | Sat | Air Horn channel marker | USB | (AB) |
| **S4020** | 4020 | 28-2 | 0458 | Tue | Channel marker | USB | (ES) |
| **S4467** | 4467 | 8-2 | 0514 | Wed | VOLNUShKA-7 KAFYeL'NYJ 1439. Test count before the message. Relayed from S32 | USB | (Priyom) |
| **S4467** | 4467 | 8-2 | 0515 | Wed | VOLNUShKA-7 DOTIROVANIYe 9398. Re-layed from S32 | USB | (Priyom) |
| **S4467** | 4467 | 8-2 | 1459 | Wed | BUShLAT-11 radio checks with MOTOK-21 PLATIN-33 MYeLIKJ-25 TAFLON-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 | USB | (Priyom) |
| **S4467** | 4467 | 8-2 | 1705 | Wed | VOLNUShKA-7 ZANOSHYeNNYJ 3116. S32 in the background | USB | (Priyom) |
| **S4467** | 4467 | 8-2 | 1742 | Wed | Test count | USB | (Priyom) |
| **S4467** | 4467 | 8-2 | 1802 | Wed | BUShLAT-11 radio checks with MOTOK-21 LAKYeR-33 MYeLKIJ-25 KATUShKA-11 SY-eGMENT-62 SAMOSVAL-64 KLAVIShA-4 | USB | (Priyom) |
| **S4467** | 4467 | 10-2 | 1703 | Fri | Test count. BUShLAT-11 radio checks with MOTOK-21 PLATIN-33 MYeLIKJ-25 POP-LAVOK-30 STRATYeG-52 KATUShKA-1 | USB | (Priyom) |
| **S4467** | 4467 | 11-2 | 0527 | Sat | BUShLAT-11 wkg KLAVIShA-45 | USB | (Priyom) |
| **S4467** | 4467 | 11-2 | 1800 | Sat | BUShLAT-11 radio checks with MOTOK-21 LAKYeR-33 MYeLIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT- | USB | (Priyom/AB) |
| **S4467** | 4467 | 13-2 | 1858 | Mon | BUShLAT-11 MOTOK-21 KLAKYeR-33 MYe-LIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 KLAVIShA-45 | USB | (Priyom) |
| **S4467** | 4467 | 15-2 | 1714 | Wed | VOLNUShKA-7 LYeYeROKRYeM 1928 (re-layed from S32) | USB | (Priyom) |
| **S4467** | 4467 | 15-2 | 1723 | Wed | VOLNUShKA-7 42913 ZYeTOFIKS 25899874 (relayed from S32) | USB | (Priyom) |

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|---|---|---|---|---|---|---|---|
| **S4467** | 4467 | 15-2 | 1805 | Wed | BUShLAT-11 MOTOK-21 KLAKYeR-33 MYe-LIKJ-25 POPLAVOK-30 STRATYeG-52 KATUShKA-11 SyeGMYeNT-62 ALMATA-54 KLAV | USB | (Priyom) |
| **S4467** | 4467 | 17-2 | 0441 | Fri | VOLNUShKA-7 VYZhIMOChNYJ 9579 Transmission failed on first attempt. | USB | (Priyom) |
| **S4467** | 4467 | 18-2 | 1745 | Sat | Test count | USB | (Priyom) |
| **S5292** | 5292 | 7-2 | 0915 | Tue | RYeGATA-75 VIZIR-21 89731 DOROGA 54771222. Test count before the message | USB | (Priyom) |
| **S5292** | 5292 | 7-2 | 1259 | Tue | FAZAN-37 98257 PAMYaT' 54549698 | USB | (Priyom) |
| **S5292** | 5292 | 11-2 | 1107 | Sat | FAZAN-37 12352 PRYZhOK 27568753. Count before the message | USB | (Priyom) |
| **S5292** | 5292 | 11-2 | 1152 | Sat | FAZAN-37 98865 HIMIYa 74498347 | USB | (Priyom) |
| **S5292** | 5292 | 11-2 | 1802 | Sat | Channel marker D | USB | (AB) |
| **S5292** | 5292 | 17-2 | 1409 | Fri | Channel marker D | USB | (ChPa) |
| **S5292** | 5292 | 17-2 | 1649 | Fri | Channel marker D | USB | (AB) |
| **S6930** | 4224.5 | 14-2 | 1545 | Tue | KATOK-65 96085 KAPRONIL 11271248 | USB | (Priyom) |
| **UM03** | 8410 | 2-2 | 0854 | Thu | X2M i.p. | CW | (AB) |
| **UM03** | 7920 | 8-2 | 0916 | Wed | CQ DE X2M VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1630 TIME 1630 DATE 0802 DATE 0802 = 546UN 6UNT7 ... AR on 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 8250 | 8-2 | 0916 | Wed | CQ DE X2M VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1630 TIME 1630 DATE 0802 DATE 0802 = 546UN 6UNT7 ... AR on 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 8410 | 8-2 | 0916 | Wed | CQ DE X2M VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1630 TIME 1630 DATE 0802 DATE 0802 = 546UN 6UNT7 ... AR on 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 7920 | 11-2 | 0848 | Sat | X2M i.p. 49 49 CK 100 CK 100 TIME 1655 TIME 165. DATE 1102 DATE 1102 = 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 8250 | 11-2 | 0848 | Sat | X2M i.p. 49 49 CK 100 CK 100 TIME 1655 TIME 165. DATE 1102 DATE 1102 = 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 8410 | 11-2 | 0848 | Sat | X2M i.p. 49 49 CK 100 CK 100 TIME 1655 TIME 165. DATE 1102 DATE 1102 = 7920//8250//8410 kHz | CW | (JPL-NZL) |
| **UM03** | 7920 | 13-2 | 0913 | Mon | i.p. CK 100 CK 100 TIME 1628 TIME 1628 DATE 1302 DATE 1302 = (7920//8250//8410 kHz) | CW | (JPL-HK) |
| **UM03** | 8250 | 13-2 | 0913 | Mon | i.p. CK 100 CK 100 TIME 1628 TIME 1628 DATE 1302 DATE 1302 = (7920//8250//8410 kHz) | CW | (JPL-HK) |
| **UM03** | 8410 | 13-2 | 0913 | Mon | i.p. CK 100 CK 100 TIME 1628 TIME 1628 DATE 1302 DATE 1302 = (7920//8250//8410 kHz) | CW | (JPL-HK) |
| **UM03** | 7920 | 14-2 | 0916 | Tue | 17 17 CK 100 CK 100 TIME 1.18 TIME 1618 DATE 1402 DATE 1402 = ... CQ (x2) DE X2M (x2) VVV (x3) MSG MSG ENG ENG (7920//8250//8410 kHz) | CW | (JPL-HK) |
| **UM03** | 8250 | 14-2 | 0916 | Tue | 17 17 CK 100 CK 100 TIME 1.18 TIME 1618 DATE 1402 DATE 1402 = ... CQ (x2) DE X2M (x2) VVV (x3) MSG MSG ENG ENG (7920//8250//8410 kHz) | CW | (JPL-HK) |
| **UM03** | 8410 | 14-2 | 0916 | Tue | 17 17 CK 100 CK 100 TIME 1.18 TIME 1618 DATE 1402 DATE 1402 = ... CQ (x2) DE X2M | CW | (JPL-HK) |

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|---|---|---|---|---|---|---|---|
| | | | | | (x2) VVV (x3) MSG MSG ENG ENG (7920//8250//8410 kHz) | | |
| **UM03** | 7920 | 15-2 | 0831 | Wed | i.p. CQ (x3) DE X2M (x2) VVV MSG MSG ENG ENG .. 99 CK 100 CK 100 TIME 1531 TIME 1531 DATE 1602 DATE 1602 = (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8250 | 15-2 | 0831 | Wed | i.p. CQ (x3) DE X2M (x2) VVV MSG MSG ENG ENG .. 99 CK 100 CK 100 TIME 1531 TIME 1531 DATE 1602 DATE 1602 = (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8410 | 15-2 | 0831 | Wed | i.p. CQ (x3) DE X2M (x2) VVV MSG MSG ENG ENG .. 99 CK 100 CK 100 TIME 1531 TIME 1531 DATE 1602 DATE 1602 = (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 7920 | 15-2 | 0856 | Wed | 71 71 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1502 DATE 1502 = 6.U4T .ATUT ... (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8250 | 15-2 | 0856 | Wed | 71 71 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1502 DATE 1502 = 6.U4T .ATUT ... (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8410 | 15-2 | 0856 | Wed | 71 71 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1502 DATE 1502 = 6.U4T .ATUT ... (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 7920 | 17-2 | 0830 | Fri | X2M i.p. mostly unreadable (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8250 | 17-2 | 0830 | Fri | X2M i.p. mostly unreadable (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM03** | 8410 | 17-2 | 0830 | Fri | X2M i.p. mostly unreadable (7920//8250//8410 kHz) | CW | (JPL-NZL) |
| **UM10** | 3115 | 2-2 | 1947 | Thu | 10-mins net: L6YC //3860 kHz | CW | (JPL-J) |
| **UM10** | 3860 | 2-2 | 1947 | Thu | 10-mins net: L6YC //3115 kHz | CW | (JPL-J) |
| **UM10** | 3207 | 2-2 | 1948 | Thu | 10-mins net: OBCD | CW | (JPL-J) |
| **UM10** | 6859 | 6-2 | 0805 | Mon | 10-mins net: DIBE | CW | (F5JBR) |
| **UM10** | 3124 | 6-2 | 1305 | Mon | 10-mins net: DEJF | CW | (F5JBR) |
| **UM10** | 3263 | 6-2 | 1325 | Mon | 10-mins net: Q7JN //3956 kHz | CW | (F5JBR) |
| **UM10** | 3263 | 6-2 | 1555 | Mon | 10-mins net: Q7JN //3956 kHz | CW | (F5JBR) |
| **UM10** | 3956 | 6-2 | 1555 | Mon | 10-mins net: Q7JN //3263 kHz | CW | (F5JBR) |
| **UM10** | 6859 | 7-2 | 0725 | Tue | 10-mins net: DIBE | CW | (F5JBR) |
| **UM10** | 3750 | 8-2 | 1335 | Wed | 10-mins net: DEJF | CW | (F5JBR-J) |
| **UM10** | 3956 | 8-2 | 1355 | Wed | 10-mins net: Q7JN | CW | (F5JBR-J) |
| **UM10** | 5948 | 11-2 | 0725 | Sat | 10-mins net: DIBE //6859 kHz | CW | (F5JBR-J) |
| **UM10** | 6859 | 11-2 | 0725 | Sat | 10-mins net: DIBE //5948 kHz | CW | (F5JBR-J) |
| **UM10** | 5765 | 11-2 | 0735 | Sat | 10-mins net: YJDN | CW | (F5JBR-J) |
| **UM10** | 3263 | 15-2 | 1800 | Wed | 10-mins net: Q7JN //3956 kHz | CW | (JPL-J) |
| **UM10** | 3956 | 15-2 | 1800 | Wed | 10-mins net: Q7JN //3263 kHz | CW | (JPL-J) |
| **UM10** | 3124 | 15-2 | 1807 | Wed | 10-mins net: DEJF | CW | (JPL-J) |
| **UM10** | 3124 | 19-2 | 1435 | Sun | 10-mins net: DEJF | CW | (F5JBR-J) |
| **UM10** | 3263 | 19-2 | 1455 | Sun | 10-mins net: Q7JN | CW | (F5JBR-J) |
| **UM10** | 3124 | 21-2 | 1545 | Tue | 10-mins net: DEJF | CW | (JPL-J) |
| **V07** | 18368 | 5-2 | 0100 | Sun | 329 329 329 000 | USB | (Dan) |
| **V07** | 16268 | 5-2 | 0120 | Sun | 329 329 329 000 | USB | (Dan) |
| **V07** | 18368 | 12-2 | 0100 | Sun | 329 329 329 1 325 59 07883 40140 49477 ..... | USB | (Dan) |
| **V07** | 16268 | 12-2 | 0120 | Sun | 329 329 329 1 325 59 07883 40140 49477 ..... | USB | (Dan) |
| **V07** | 13968 | 12-2 | 0140 | Sun | 329 329 329 1 325 59 07883 40140 49477 ..... | USB | (Dan) |

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|---|---|---|---|---|---|---|---|
| **V07** | 18368 | 19-2 | 0100 | Sun | 329 0 via GT Mojave | USB | (HFD-USA) |
| **V07** | 18368 | 19-2 | 0100 | Sun | 329 329 329 000 | USB | (Dan) |
| **V07** | 16268 | 19-2 | 0120 | Sun | 329 329 329 000 | USB | (Dan) |
| **V07** | 16268 | 19-2 | 0120 | Sun | 329 0 via GT Mojave | USB | (HFD) |
| **V07** | 18368 | 26-2 | 0100 | Sun | 329 329 329 1 ... | USB | (Dan) |
| **V07** | 16268 | 26-2 | 0120 | Sun | 329 329 329 1 ... | USB | (Dan) |
| **V07** | 13968 | 26-2 | 0140 | Sun | 329 329 329 1 ... | USB | (Dan) |
| **V13** | 11430 | 1-2 | 0500 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 1-2 | 0600 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 11-2 | 0500 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 11-2 | 0600 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 12-2 | 0500 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 12-2 | 0600 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 13-2 | 0500 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 13-2 | 0600 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 13-2 | 0700 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 13-2 | 0800 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 15-2 | 0500 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 15-2 | 0600 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 15-2 | 0700 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 15-2 | 0800 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 16-2 | 0500 | Thu | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 16-2 | 0600 | Thu | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 15250 | 16-2 | 0700 | Thu | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 15250 | 16-2 | 0800 | Thu | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 17-2 | 0500 | Fri | New Star Broadcasting Station | AM | (AB-PHL) |
| **V13** | 11430 | 17-2 | 0600 | Fri | New Star Broadcasting Station | AM | (AB-PHL) |
| **V13** | 15250 | 17-2 | 0700 | Fri | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 15250 | 17-2 | 0800 | Fri | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 18-2 | 0500 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 18-2 | 0600 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 18-2 | 0700 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 18-2 | 0800 | Sat | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 19-2 | 0500 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 19-2 | 0600 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 19-2 | 0700 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 19-2 | 0800 | Sun | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 20-2 | 0500 | Mon | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 20-2 | 0600 | Mon | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 15250 | 20-2 | 0700 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 20-2 | 0800 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 9276 | 20-2 | 1200 | Mon | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 21-2 | 0500 | Tue | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 21-2 | 0600 | Tue | New Star Broadcasting Station | AM | (AB-J) |
| **V13** | 11430 | 22-2 | 0500 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 22-2 | 0600 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 22-2 | 0700 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 22-2 | 0800 | Wed | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 11430 | 23-2 | 0500 | Thu | New Star Broadcasting Station | AM | (HFD-HK) |
| **V13** | 11430 | 24-2 | 0500 | Fri | New Star Broadcasting Station | AM | (AB-KOR) |
| **V13** | 11430 | 24-2 | 0600 | Fri | New Star Broadcasting Station | AM | (AB-KOR) |
| **V13** | 15250 | 24-2 | 0700 | Fri | New Star Broadcasting Station | AM | (AB-HK) |
| **V13** | 15250 | 24-2 | 0800 | Fri | New Star Broadcasting Station | AM | (AB-HK) |
| **V24** | 4900 | 27-2 | 1530 | Mon | Mixing with Voice of Strait | AM | (MDK2/RonC) |
| **V26** | 4243 | 5-2 | 1210 | Sun | Message in Chinese i.p. Female operator | USB | (JPL-J) |
| **V26** | 4364 | 9-2 | 1130 | Thu | Callup in Chinese. Male operator //8073 | USB | (JPL) |

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|---|---|---|---|---|---|---|---|
| | | | | | kHz | | |
| **V26** | 8073 | 9-2 | 1130 | Thu | Callup in Chinese. Male operator //4364 kHz | USB | (JPL) |
| **V26** | 4243 | 9-2 | 1212 | Thu | Messages in Chinese. Female operator //9054 kHz | USB | (JPL-NZL) |
| **V26** | 9054 | 9-2 | 1212 | Thu | Messages in Chinese. Female operator //4243 kHz | USB | (JPL-NZL) |
| **V26** | 4364 | 13-2 | 1130 | Mon | Callup in Chinese. Male operator // 8073 kHz | USB | (JPL-J) |
| **V26** | 8073 | 13-2 | 1130 | Mon | Callup in Chinese. Male operator // 4364 kHz | USB | (JPL-J) |
| **V26** | 4243 | 13-2 | 1140 | Mon | Callup in Chinese. Female operator //9054 kHz | USB | (JPL-J) |
| **V26** | 9054 | 13-2 | 1140 | Mon | Callup in Chinese. Female operator //4243 kHz | USB | (JPL-J) |
| **V26** | 4364 | 13-2 | 1203 | Mon | Messages in Chinese. Female operator //8073 kHz | USB | (JPL-J) |
| **V26** | 8073 | 13-2 | 1203 | Mon | Messages in Chinese. Female operator //4364 kHz | USB | (JPL-J) |
| **V26** | 4243 | 13-2 | 1205 | Mon | Messages in Chinese. Female operator //9054 kHz | USB | (JPL-J) |
| **V26** | 9054 | 13-2 | 1205 | Mon | Messages in Chinese. Female operator //4243 kHz | USB | (JPL-J) |
| **V26** | 4243 | 14-2 | 0913 | Tue | Messages in Chinese. Female operator //9054 kHz | USB | (JPL-NZL) |
| **V26** | 9054 | 14-2 | 0913 | Tue | Messages in Chinese. Female operator //4243 kHz | USB | (JPL-NZL) |
| **V26** | 8073 | 19-2 | 1129 | Sun | Callup in Chinese. Male operator | USB | (JPL-NZL) |
| **V26** | 4364 | 20-2 | 1130 | Mon | Callup in Chinese. Male operator //8073 kHz | USB | (JPL-NZL) |
| **V26** | 8073 | 20-2 | 1130 | Mon | Callup in Chinese. Male operator //4364 kHz | USB | (JPL-NZL) |
| **V26** | 4243 | 20-2 | 1140 | Mon | Callup in Chinese. Female operator //9054 kHz | USB | (JPL-NZL) |
| **V26** | 9054 | 20-2 | 1140 | Mon | Callup in Chinese. Female operator //4243 kHz | USB | (JPL-NZL) |
| **V26** | 4243 | 20-2 | 1205 | Mon | Messages in Chinese. Female operator //9054 kHz | USB | (JPL-NZL) |
| **V26** | 9054 | 20-2 | 1205 | Mon | Messages in Chinese. Female operator //4243 kHz | USB | (JPL-NZL) |
| **V26** | 4243 | 21-2 | 1211 | Tue | Messages in Chinese. Female operator //9054 kHz | USB | (JPL-NZL) |
| **V26** | 9054 | 21-2 | 1211 | Tue | Messages in Chinese. Female operator //4243 kHz | USB | (JPL-NZL) |
| **V26** | 4243 | 23-2 | 1220 | Thu | Messages in Chinese. Female operator //9054 kHz | USB | (F5JBR) |
| **V26** | 9054 | 23-2 | 1220 | Thu | Messages in Chinese. Female operator //4243 kHz | USB | (F5JBR) |
| **V26** | 9054 | 23-2 | 2340 | Thu | Callup in Chinese. Female operator | USB | (Dan) |
| **V26** | 9054 | 24-2 | 0010 | Fri | Callup in Chinese. Female operator | USB | (Dan) |
| **V28** | 3141 | 11-2 | 0930 | Sat | Messages in Korean. Female operator | USB | (Kimi) |
| **VC01** | 5445 | 21-2 | 1213 | Tue | Chinese Robot | USB | (AB) |
| **X06** | 12215 | 3-2 | 1004 | Fri | Mazielka. Sequence: 361245 | MFSK | (ES) |
| **X06** | 16223 | 9-2 | 1003 | Thu | Mazielka. Sequence: 164532 | MFSK | (ES) |
| **X06** | 7961 | 9-2 | 1537 | Thu | Mazielka i.p. Sequence: 263145 | MFSK | (AB) |
| **X06** | 12213 | 10-2 | 1101 | Fri | Mazielka. Sequence: 615243 | MFSK | (ES) |
| **X06** | 16115 | 15-2 | 1134 | Wed | Mazielka. Sequence: 215346 | MFSK | (ES) |
| **X06** | 18197 | 16-2 | 0935 | Thu | Mazielka. Sequence: 645321 | MFSK | (ES) |

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| **X06b** | 15983 | 15-2 | 0725 | Wed | Mazielka. Sequence 1--6-- before XPA2 | MFSK | (AB) |
| **X06b** | 15983 | 15-2 | 0728 | Wed | Mazielka. Sequence 1--6-- before XPA2 | MFSK | (AB) |
| **X06b** | 8157 | 28-2 | 0801 | Tue | Mazielka. Sequence: 6--1-- | MFSK | (ES) |
| **XM** | 8495.4 | 1-2 | 0606 | Wed | Beacon M | CW | (AB-J) |
| **XM** | 10872.3 | 1-2 | 0606 | Wed | Beacon K | CW | (AB-J) |
| **XM** | 10872.4 | 1-2 | 0606 | Wed | Beacon M | CW | (AB-J) |
| **XM** | 13528.4 | 1-2 | 0606 | Wed | Beacon M | CW | (AB-J) |
| **XM** | 16332.4 | 1-2 | 0606 | Wed | Beacon M | CW | (AB-J) |
| **XPA** | 11409 | 1-2 | 0700 | Wed | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB) |
| **XPA** | 13509 | 1-2 | 0720 | Wed | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB/SP1) |
| **XPA** | 14609 | 1-2 | 0740 | Wed | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB) |
| **XPA** | 11409 | 4-2 | 0700 | Sat | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB/ES) |
| **XPA** | 13509 | 4-2 | 0720 | Sat | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB/ES) |
| **XPA** | 14609 | 4-2 | 0740 | Sat | 456 1 05436 00189 06714 ... 53955 89714 13477 | MFSK-20/10Bd | (AB/ES) |
| **XPA** | 11409 | 8-2 | 0700 | Wed | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB) |
| **XPA** | 13509 | 8-2 | 0720 | Wed | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB/SP1) |
| **XPA** | 14609 | 8-2 | 0740 | Wed | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB) |
| **XPA** | 11409 | 11-2 | 0700 | Sat | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB/SP1) |
| **XPA** | 13509 | 11-2 | 0720 | Sat | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB) |
| **XPA** | 14609 | 11-2 | 0740 | Sat | 456 1 00588 00107 37616 ... 94560 11603 00352 | MFSK-20/10Bd | (AB) |
| **XPA** | 11409 | 15-2 | 0700 | Wed | 456 456 456 000 03658 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 13509 | 15-2 | 0720 | Wed | 456 456 456 000 03658 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 14609 | 15-2 | 0740 | Wed | 456 456 456 000 03658 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 11409 | 18-2 | 0700 | Sat | 456 456 456 000 02337 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 13509 | 18-2 | 0720 | Sat | 456 456 456 000 02337 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 14609 | 18-2 | 0740 | Sat | 456 456 456 000 02337 00001 00000 10140 | MFSK-20/10Bd | (AB) |
| **XPA** | 11409 | 22-2 | 0700 | Wed | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB/SP1/HFD) |
| **XPA** | 13509 | 22-2 | 0720 | Wed | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB/HFD) |
| **XPA** | 14609 | 22-2 | 0740 | Wed | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB/HFD) |
| **XPA** | 11409 | 25-2 | 0700 | Sat | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB) |
| **XPA** | 13509 | 25-2 | 0720 | Sat | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB/CR2/W9SPY) |
| **XPA** | 14609 | 25-2 | 0740 | Sat | 456 1 09502 00163 30577 ... 00963 72879 52243 | MFSK-20/10Bd | (AB) |
| **XPA2** | 15983 | 1-2 | 0800 | Wed | 03568 00163 57863 ... 64196 30881 61251 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 1-2 | 0820 | Wed | 03568 00163 57863 ... 64196 30881 61251 | MFSK-16/20Bd | (AB) |

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|---|---|---|---|---|---|---|---|
| **XPA2** | 13883 | 1-2 | 0840 | Wed | 03568 00163 57863 ... 64196 30881 61251 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 3-2 | 0700 | Fri | 09482 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15948 | 3-2 | 0720 | Fri | 09482 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 3-2 | 0740 | Fri | 09482 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 18667 | 3-2 | 1400 | Fri | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/HFD) |
| **XPA2** | 17419 | 3-2 | 1420 | Fri | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/HFD) |
| **XPA2** | 16212 | 3-2 | 1440 | Fri | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/RL/HFD) |
| **XPA2** | 18667 | 4-2 | 1400 | Sat | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/MPJ/RL) |
| **XPA2** | 17419 | 4-2 | 1420 | Sat | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/MPJ/RL) |
| **XPA2** | 16212 | 4-2 | 1440 | Sat | 06952 00067 43229 ... 52926 14499 16223 | MFSK-16/20Bd | (AB/RL) |
| **XPA2** | 16338 | 5-2 | 1500 | Sun | 04544 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 14538 | 5-2 | 1520 | Sun | 04544 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/HFD) |
| **XPA2** | 13538 | 5-2 | 1540 | Sun | 04544 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 15983 | 6-2 | 0800 | Mon | 08635 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 6-2 | 0820 | Mon | 08635 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13883 | 6-2 | 0840 | Mon | 08635 00001 00000 10140 | MFSK-16/20Bd | (AB/SP1) |
| **XPA2** | 14558 | 7-2 | 0700 | Tue | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB/SP1) |
| **XPA2** | 15958 | 7-2 | 0720 | Tue | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 7-2 | 0740 | Tue | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16338 | 7-2 | 1500 | Tue | 01239 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/HFD) |
| **XPA2** | 14538 | 7-2 | 1520 | Tue | 01239 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13538 | 7-2 | 1540 | Tue | 01239 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/HFD) |
| **XPA2** | 15983 | 8-2 | 0800 | Wed | 09949 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 8-2 | 0820 | Wed | 09949 00001 00000 10140 | MFSK-16/20Bd | (AB/SP1) |
| **XPA2** | 13883 | 8-2 | 0840 | Wed | 09949 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 10-2 | 0700 | Fri | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15958 | 10-2 | 0720 | Fri | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 10-2 | 0740 | Fri | 05275 00075 36355 ... 22389 00590 62210 | MFSK-16/20Bd | (AB) |
| **XPA2** | 18667 | 10-2 | 1400 | Fri | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB/RL-HOL) |
| **XPA2** | 17419 | 10-2 | 1420 | Fri | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16212 | 10-2 | 1440 | Fri | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB) |
| **XPA2** | 18667 | 11-2 | 1400 | Sat | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 17419 | 11-2 | 1420 | Sat | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 16212 | 11-2 | 1440 | Sat | 04286 00083 98792 ... 38281 57233 61622 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16338 | 12-2 | 1500 | Sun | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14538 | 12-2 | 1520 | Sun | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13538 | 12-2 | 1540 | Sun | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15983 | 13-2 | 0800 | Mon | 08723 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 13-2 | 0820 | Mon | 08723 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13883 | 13-2 | 0840 | Mon | 08723 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 14-2 | 0700 | Tue | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15958 | 14-2 | 0720 | Tue | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 14-2 | 0740 | Tue | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16338 | 14-2 | 1500 | Tue | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 14538 | 14-2 | 1520 | Tue | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB/MPJ/MDK2) |
| **XPA2** | 13538 | 14-2 | 1540 | Tue | 05197 00093 49856 ... 33185 32437 36652 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 15983 | 15-2 | 0800 | Wed | 03989 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 15-2 | 0820 | Wed | 03989 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13883 | 15-2 | 0840 | Wed | 03989 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 17-2 | 0700 | Fri | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15958 | 17-2 | 0720 | Fri | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 17-2 | 0740 | Fri | 00220 00165 97034 ... 27047 47811 00257 | MFSK-16/20Bd | (AB) |
| **XPA2** | 18667 | 17-2 | 1400 | Fri | 02292 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 17419 | 17-2 | 1420 | Fri | 02292 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 16212 | 17-2 | 1440 | Fri | 02292 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 18667 | 18-2 | 1400 | Sat | 09033 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **XPA2** | 17419 | 18-2 | 1420 | Sat | 09033 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 16212 | 18-2 | 1440 | Sat | 09033 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 16338 | 19-2 | 1500 | Sun | 07374 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 14538 | 19-2 | 1520 | Sun | 07374 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 13538 | 19-2 | 1540 | Sun | 07374 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 15983 | 20-2 | 0800 | Mon | 09519 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 20-2 | 0820 | Mon | 09519 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13883 | 20-2 | 0840 | Mon | 09519 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 21-2 | 0700 | Tue | 02597 00001 00000 10140 | MFSK-16/20Bd | (AB/SP1) |
| **XPA2** | 15958 | 21-2 | 0720 | Tue | 02597 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 21-2 | 0740 | Tue | 02597 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16338 | 21-2 | 1500 | Tue | 09909 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/RL) |
| **XPA2** | 14538 | 21-2 | 1520 | Tue | 09909 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/MDK2) |
| **XPA2** | 13538 | 21-2 | 1540 | Tue | 09909 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 15983 | 22-2 | 0800 | Wed | 05407 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 22-2 | 0820 | Wed | 05407 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 13883 | 22-2 | 0840 | Wed | 05407 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 14558 | 24-2 | 0700 | Fri | 04273 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15958 | 24-2 | 0720 | Fri | 04273 00001 00000 10140 | MFSK-16/20Bd | (AB-RUS) |
| **XPA2** | 17458 | 24-2 | 0740 | Fri | 04273 00001 00000 10140 | MFSK-16/20Bd | (AB-RUS) |
| **XPA2** | 18667 | 24-2 | 1400 | Fri | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS) |
| **XPA2** | 17419 | 24-2 | 1420 | Fri | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS) |
| **XPA2** | 16212 | 24-2 | 1440 | Fri | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS) |
| **XPA2** | 18667 | 25-2 | 1400 | Sat | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS/MPJ) |
| **XPA2** | 17419 | 25-2 | 1420 | Sat | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS/MPJ) |
| **XPA2** | 16212 | 25-2 | 1440 | Sat | 02411 00115 48543 ... 86231 98409 04763 | MFSK-16/20Bd | (AB-RUS/MPJ) |
| **XPA2** | 16338 | 26-2 | 1500 | Sun | 03397 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/RL) |
| **XPA2** | 14538 | 26-2 | 1520 | Sun | 03397 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ/MDK2) |
| **XPA2** | 13538 | 26-2 | 1540 | Sun | 03397 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 15983 | 27-2 | 0800 | Mon | 08624 00149 94771 ... 84114 53433 06047 | MFSK-16/20Bd | (AB/HFD) |
| **XPA2** | 6835 | 27-2 | 0807 | Mon | i.p. unexpected transmission | MFSK-16/20Bd | (AB) |
| **XPA2** | 14783 | 27-2 | 0820 | Mon | 08624 00149 94771 ... 84114 53433 06047 | MFSK-16/20Bd | (AB/HFD) |
| **XPA2** | 13883 | 27-2 | 0840 | Mon | 08624 00149 94771 ... 84114 53433 06047 | MFSK-16/20Bd | (AB/HFD) |
| **XPA2** | 14558 | 28-2 | 0700 | Tue | 08257 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 15958 | 28-2 | 0720 | Tue | 08257 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 17458 | 28-2 | 0740 | Tue | 08257 00001 00000 10140 | MFSK-16/20Bd | (AB) |
| **XPA2** | 16338 | 28-2 | 1500 | Tue | 01893 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 14538 | 28-2 | 1520 | Tue | 01893 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XPA2** | 13538 | 28-2 | 1540 | Tue | 01893 00001 00000 10140 | MFSK-16/20Bd | (AB/MPJ) |
| **XSL** | 4153 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 4231.5 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 4291 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 6250 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 6417 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 6445 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 8313 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 8508 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 8703.5 | 1-2 | 0603 | Wed | Japanese Navy a.k.a. Slotmachine | QPSK 1500Bd | (AB-J) |
| **XSL** | 6250 | 13-2 | 2150 | Mon | Japanese slotmachine | QPSK 1500Bd | (Dan) |
| **XSL** | 8588 | 13-2 | 2150 | Mon | Japanese slotmachine | QPSK 1500Bd | (Dan) |

# ***CONTRIBUTORS***

| | |
|---|---|
| AB | Ary Boender, Netherlands |
| AB-AUT | Ary Boender via remote rx Austria |
| AB-GRC | Ary Boender via remote rx Greece |
| AB-HK | Ary Boender via remote rx Hong Kong |
| AB-ISL | Ary Boender via remote rx Iceland |
| AB-J | Ary Boender via remote rx Japan |
| AB-KOR | Ary Boender via remote rx South Korea |
| AB-NZL | Ary Boender via remote rx New Zealand |
| AB-PHL | Ary Boender via remote rx Philippines |
| AB-POL | Ary Boender via remorx Poland |
| AB-RUS | Ary Boender via remote rx Russia |
| AB-S | Ary Boender via remote rx Sweden |
| AB-UKR | Ary Boender via remote rx Ukraine |
| BR | Brian Rogers, UK |
| BvR | Bert van Rij, Netherlands |
| BW3 | Barry Williams, AL, USA |
| ChPa | Christer, Sweden |
| CR2 | Curt Rowlett |
| Danix | Danix111, Poland |
| Danix-J | Danix vie remote rx Japan |
| Danix-RUS | Danix via remote rx Russia |
| Danix-USA | Danix via remote rx USA |
| DSch | Don Schimmel, WV, USA |
| ES | Edward Smith, UK |
| ES-AUT | Edward Smith via remote rx Austria |
| ES-GRC | Edward Smith via remote rc Greece |
| ES-I | Edward Smith via remote rx Italy |
| ES-PHL | Edward Smith via remote rx Philippines |
| ES-POL | Edward Smith via remote rx Poland |
| ES-UKR | Edward Smith via remote rx Ukraine |
| EW | Eddy Waters, Australia |
| F5JBR | F5JBR André, France |
| F5JBR-AUT | F5JBR via remote rx Austria |
| F5JBR-J | F5JBR André via remote rx Japan |
| GHn | Gary Hagermann, UK |
| GNL | Graham, Canada |
| HFD-HK | Hans-Friedrich Dumrese via remote rx Hong Kong |
| HFD-USA | Hans-Friedrich Dumrese via remote rx USA |
| JPL | JPL, Ontario, Canada (and various remotes) |
| JPL-HK | JPL via remote rx Hong Kong |
| JPL-J | JPL via remote rx Japan |
| JPL-NZL | JPL via remote rx New Zealand |
| JU | Jay Updike, W. Europe |
| Kimi | Kimi, Japan |
| MCO | Mike Chace-Ortiz, PA, USA |
| MDK2 | MDK2, USA |
| ML4 | Michel Lacroix, France |
| MM4 | Marcel Maatkamp, HOL |
| MPJ | Jim, SW England |
| Priyom | Priyom.org |
| qsr711 | QSR711 |
| RB2 | Richard |
| RHA | Robin Harwoord, AUS |
| RL | Landolpho, Brazil |
| RL-HOL | Landolpho via remote rx Netherlands |
| RonC | Ron, CA, USA |
| RP-MD | Ron, MD, USA |
| RR2 | Rich Ray, IL, USA |
| SG | Steve Gunn, UK |
| Sha | shadypyro |
| SP1 | Sylvain, France |
| Token | T!, CA, USA |
| Tom | Tom, Lincs, UK |
| TrW | Traveling Wave |
| W9SPY | Curt |
| WP3 | Wolfgang Palmberger |

*I hope that I mentioned everyone. If not, sorry and thanks for your contribution.*

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| **HF UNDERGROUND** | http://www.hfunderground.com/board/ |
| **PRIYOM** | http://priyom.org/ |

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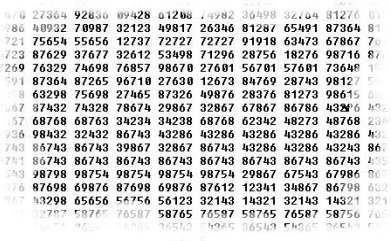

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